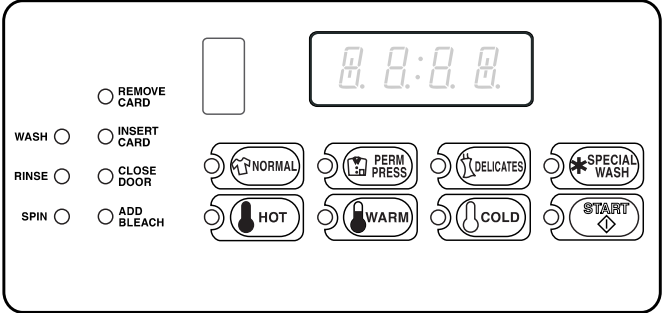# NetMaster

Washer-Extractor

Cabinet Hard Mount Enhanced Programming Guide
Refer to Page 5 for Model Numbers

C872I

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

Alliance
Laundry Systems

www.comlaundry.com

Part No. F232152R1
September 2004

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

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

Notes

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Table of Contents

Introduction

Model Identification

Information in this manual is applicable to these models:

HC18NC2	HC60NX2	NC40NX2	SC30NR2
HC18NR2	HC80NCV	NC50NC2	SC30NX2
HC18NX2	HC80NRV	NC50NP2	SC35NC2
HC25NC2	HC80NXV	NC50NR2	SC35NR2
HC25NR2	NC18NC2	NC50NX2	SC35NX2
HC25NX2	NC18NP2	NC80NCV	SC40NC2
HC27NC2	NC18NR2	NC80NPV	SC40NR2
HC27NR2	NC18NX2	NC80NRV	SC40NX2
HC27NX2	NC25NC2	NC80NXV	SC50NC2
HC30NC2	NC25NP2	SC18NC2	SC50NR2
HC35NC2	NC25NR2	SC18NR2	SC50NX2
HC35NR2	NC25NX2	SC18NX2	SC60NC2
HC35NX2	NC27NC2	SC20NC2	SC60NCF
HC40NC2	NC27NP2	SC20NR2	SC60NR2
HC40NR2	NC27NR2	SC20NX2	SC60NRF
HC40NX2	NC27NX2	SC25NC2	SC60NX2
HC50NC2	NC35NC2	SC25NR2	SC80NCV
HC50NR2	NC35NP2	SC25NX2	SC80NRV
HC50NX2	NC35NR2	SC27NC2	SC80NXV
HC60NC2	NC35NX2	SC27NR2	
HC60NCF	NC40NC2	SC27NX2	
HC60NR2	NC40NR2	SC30NC2	

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Entering the Manual Mode

For programming, testing, and retrieving information from NetMaster, it is often necessary to enter the Manual Mode by following the four simple steps below.

How to Enter the Manual Mode

1. Be sure the washer-extractor is in the Ready Mode before continuing to step 2. Refer to *Figure 1*. If the washer-extractor is in an active cycle, rapid advance through the cycle. Refer to ***Rapid Advance Feature*** section of the Basic Programming Guide. If coins have been entered, refer to ***Clear Vend Feature*** section of the Basic Programming Guide.

C854I
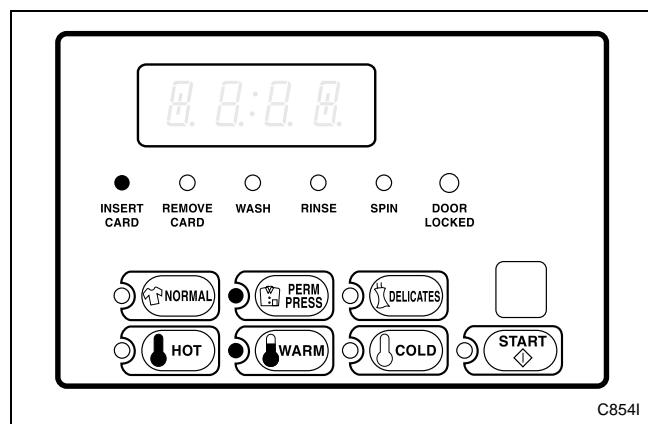
Figure 1

2. Open the access panel. Refer to ***Opening the Access Panel*** section of the Basic Programming Guide.

3. While pressing and holding the NORMAL keypad with one hand, press the HOT keypad with the other hand.

4. The VFD display will show "rAPd". Refer to *Figure 2*.

B30R
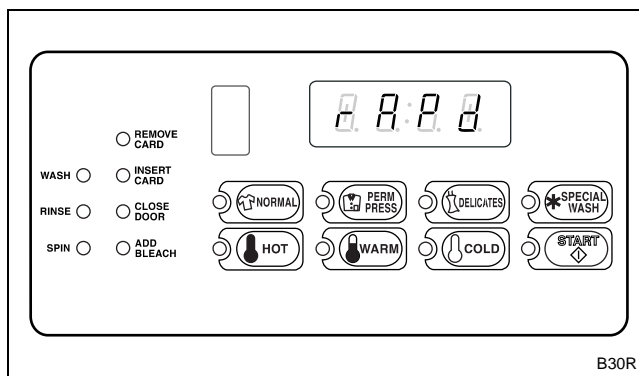
Figure 2

5. Press the DELICATES (+) or the COLD (-) keypad to scroll through the options until the desired option appears in the VFD.

6. Press the START (enter) keypad.

For additional information on the Manual Mode, refer to ***Entering Manual Mode*** section of the Basic Programming Guide.

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 F232152

Programming NetMaster

What Can Be Programmed?

This feature allows the owner to program cycle information, standard vend pricing, special vends and other features by using the keypads. The control must have the Manual Programming Mode enabled, which is the factory default. This mode can only be turned OFF and ON by using the Micro-Wand IIIE, the Smart Card Reader, or the Network. Refer to this section when programming NetMaster.

This section offers a detailed description of options available to program. Additional options can be found in the Basic Programming Guide.

Each description includes instructions on when and why the option might be used and, more importantly, how to program the option.

For more advanced users, a quick reference list of the options available through the programming mode is located on the following page.

NOTE: The three numbers in the Option column of the Programmable Options List are what will be shown in the VFD display when that option is selected.

Programmable Options Available

OPTION	DESCRIPTION
008	Site Code #1 Hot Regular Wash Vend Price
009	Site Code #1 Warm Regular Wash Vend Price
010	Site Code #1 Cold Regular Wash Vend Price
011	Site Code #1 Hot Special Wash Vend Price
012	Site Code #1 Warm Special Wash Vend Price
013	Site Code #1 Cold Special Wash Vend Price
014	Special Cycle Vend Price
022	Special Vend A Site Code #1
032	Start Pulse Value
034	Power Fail Reset
043	Normal PreWash #2 Fill/Tumble Time
046	Normal Rinse Extra Fill/Tumble Time
049	Normal Spin Extract Speed
050	Normal Extracts On/Off
052	Permanent Press PreWash #2 Fill/Tumble Time
055	Permanent Press Rinse Extra Fill/Tumble Time
058	Permanent Press Spin Extract Speed
059	Permanent Press Extracts On/Off
060	Delicates PreWash #1 Fill/Tumble Time
061	Delicates PreWash #2 Fill/Tumble Time
064	Delicates Rinse Extra Fill/Tumble Time
067	Delicates Spin Extract Speed
068	Delicates Extracts On/Off
070	Special Wash PreWash #2 Fill/Tumble Time
073	Special Wash Rinse Extra Fill/Tumble Time
076	Special Wash Spin Extract Speed
077	Special Wash Extracts On/Off
078	PreWash #1/PreWash #2/Rinses Water Temperature
079	Fill/Tumbles Water Levels #1
080	Fill/Tumbles Water Levels #2
082	Control Configuration Data #2
083	Control Configuration Data #3
084	Hot Water Temperature
085	Warm Water Temperature
086	Cold Water Temperature
087	PreWash #1 Fill/Tumble Dispenser
088	PreWash #2 Fill/Tumble Dispenser

OPTION	DESCRIPTION
089	Wash Fill/Tumble Dispenser
090	Rinse #1 Fill/Tumble Dispenser
091	Rinse Extra Fill/Tumble Dispenser
092	Rinse Final Fill/Tumble Dispenser
093	PreWash #1 Fill/Tumble Drain
094	PreWash #1 Drain/Tumble Drain
095	PreWash #1 Extract Drain
096	PreWash #2 Fill/Tumble Drain
097	PreWash #2 Drain/Tumble Drain
098	PreWash #2 Extract Drain
099	Wash Fill/Tumble Drain
100	Wash Drain/Tumble Drain
101	Wash Extract Drain
102	Rinse #1 Fill/Tumble Drain
103	Rinse #1 Drain/Tumble Drain
104	Rinse #1 Extract Drain
105	Rinse Extra Fill/Tumble Drain
106	Rinse Extra Drain/Tumble Drain
107	Rinse Extra Extract Drain
108	Rinse Final Fill/Tumble Drain
109	Rinse Final Drain/Tumble Drain
110	Rinse Final Extract Drain
111	Spin Extract Drain
112	Spin Shakeout Drain
113	Water Inlet
115	Special Cycle Option
116	Special Cycle Extra Wash Fill/Agitate Time
117	Special Cycle Extra Rinse Extra Fill/Agitate Time
122	Site Code #1
123	Error Code Programming Parameter
124	Start Pulse Mode

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8. Site Code #1 Hot Regular Wash Vend Price "+008"

This option allows the owner to set the vend price for a hot regular wash when cards with a special site code are used by specific groups or individuals.

How to Program the Site Code #1 Hot Regular Wash Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 3

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+008" appears in the VFD. Refer to *Figure 4*.
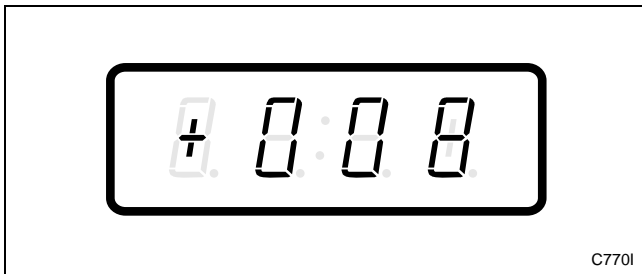
Figure 4

4. When "+008" appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Hot Regular Wash Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 5*.

Figure 5

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 6*.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 6

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 7*.

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Figure 7

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+009", will appear in the VFD.

NOTE: To program "+009" (Site Code #1 Warm Regular Wash Vend Price), refer to *option 9*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

9. Site Code #1 Warm Regular Wash Vend Price "+009"

This option allows the owner to set the vend price for a warm regular wash when cards with a special site code are used by specific groups or individuals.

How to Program the Site Code #1 Warm Regular Wash Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
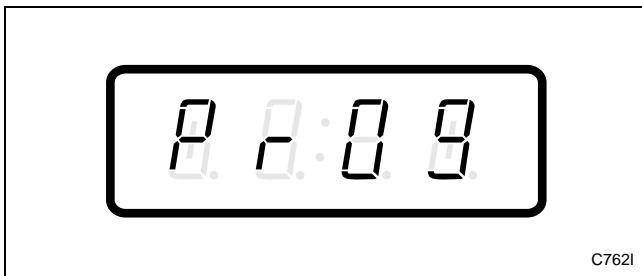

Figure 8

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+009" appears in the VFD. Refer to *Figure 9*.
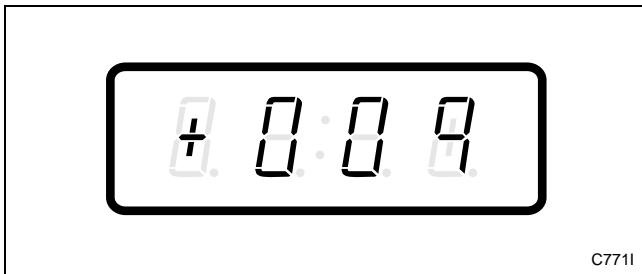
Figure 9

4. When "+009" appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Warm Regular Wash Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 10*.

Figure 10

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 11*.

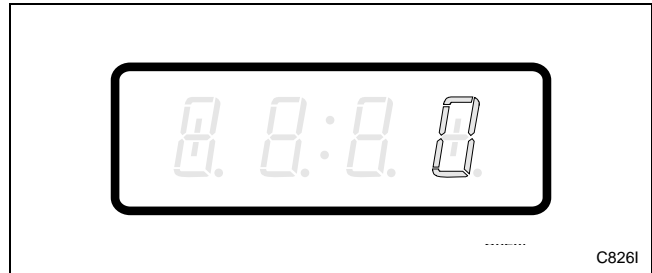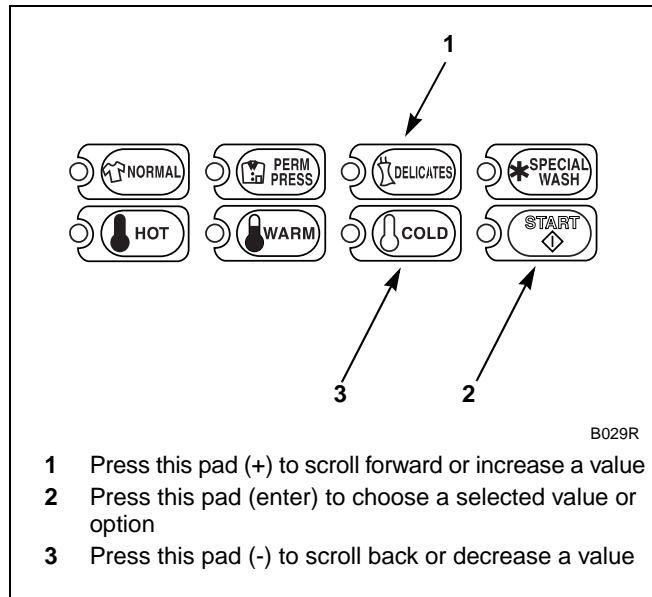**1** Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 11

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 12*.

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Figure 12

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+010", will appear in the VFD.

NOTE: To program "+010" (Site Code #1 Cold Regular Wash Vend Price), refer to *option 10*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

10. Site Code #1 Cold Regular Wash Vend Price "+010"

This option allows the owner to set the vend price for a cold regular wash when cards with a special site code are used by specific groups or individuals.

How to Program the Site Code #1 Cold Regular Wash Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 13

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+010" appears in the VFD. Refer to *Figure 14*.

Figure 14

4. When "+010" appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Cold Regular Wash Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 15*.

Figure 15

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 16*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 16

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 17*.
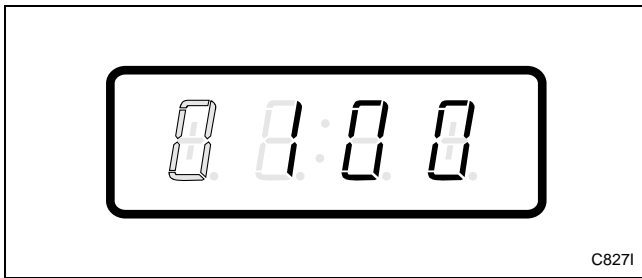

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Figure 17

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+011", will appear in the VFD.

NOTE: To program "+011" (Site Code #1 Hot Special Wash Vend Price), refer to *option 11*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

11. Site Code #1 Hot Special Wash Vend Price "+011"

This option allows the owner to set the vend price for a hot special wash when cards with a special site code are used by specific groups or individuals.

How to Program the Site Code #1 Hot Special Wash Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

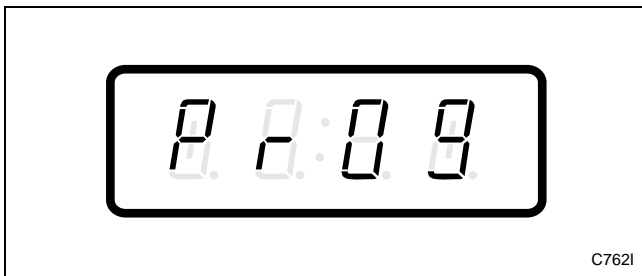2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 18

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+011" appears in the VFD. Refer to *Figure 19*.

Figure 19

4. When "+011" appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Hot Special Wash Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 20*.
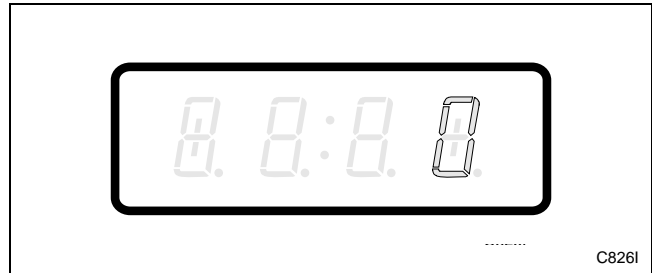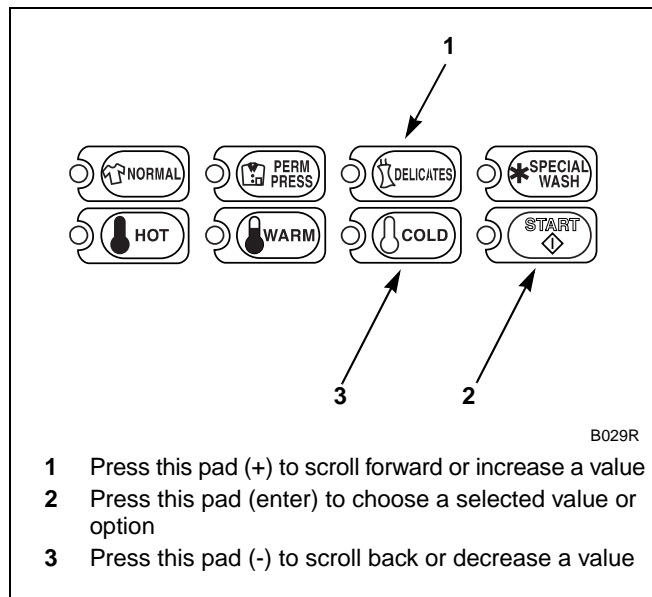

Figure 20

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 21*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 21

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 22*.
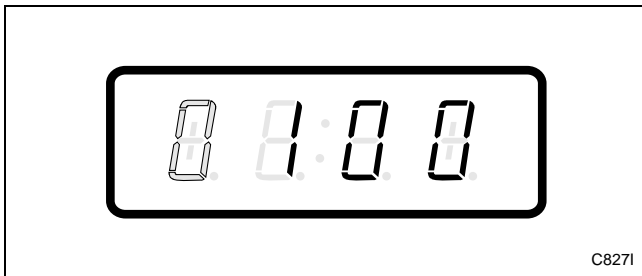

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Figure 22

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+012", will appear in the VFD.

NOTE: To program "+012" (Site Code #1 Warm Special Wash Vend Price), refer to *option 12*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

12. Site Code #1 Warm Special Wash Vend Price "+012"

This option allows the owner to set the vend price for a warm special wash when cards with a special site code are used by specific groups or individuals.

How to Program the Site Code #1 Warm Special Wash Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
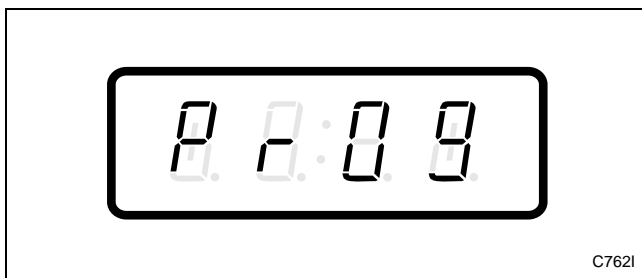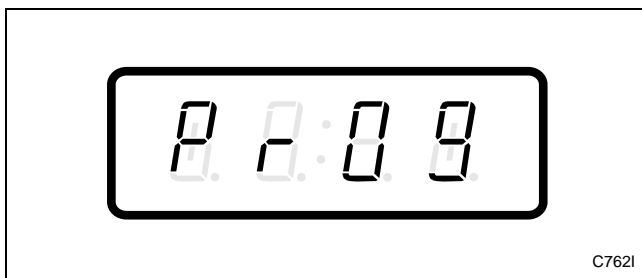

Figure 23

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+012" appears in the VFD. Refer to *Figure 24*.
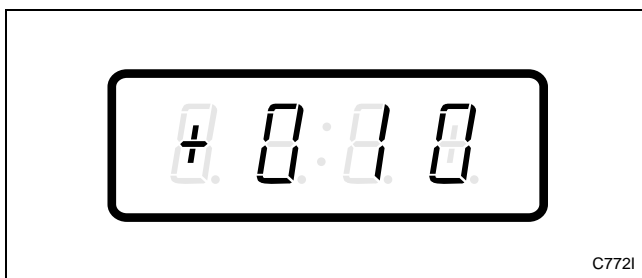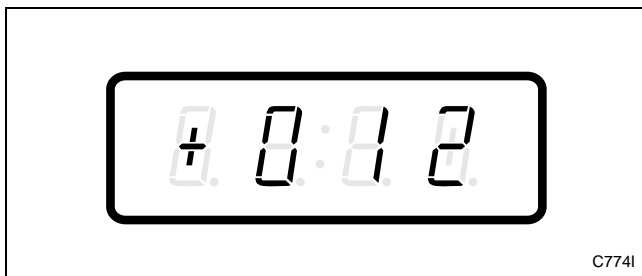

Figure 24

4. When "+012" appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Warm Special Wash Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 25*.
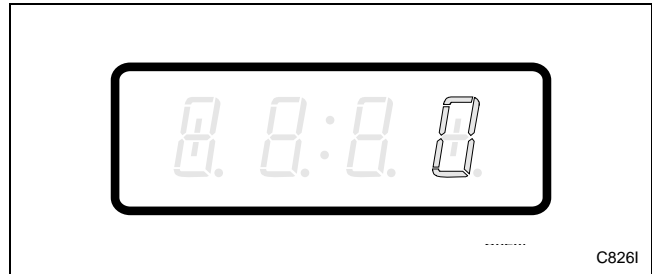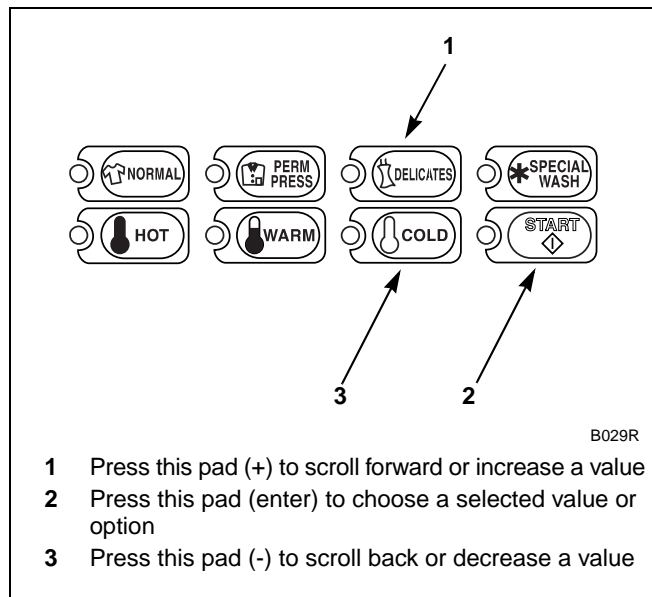

Figure 25

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 26*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 26

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 27*.
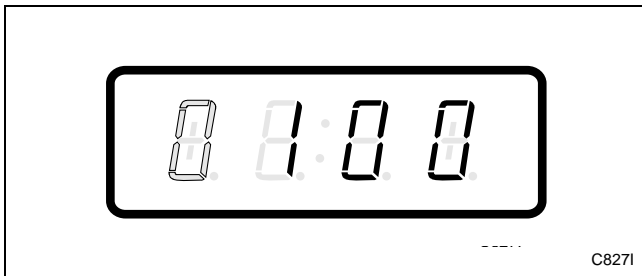

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Figure 27

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+013", will appear in the VFD.

NOTE: To program "+013" (Site Code #1 Cold Special Wash Vend Price), refer to *option 13*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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13. Site Code #1 Cold Special Wash Vend Price "+013"

This option allows the owner to set the vend price for a cold special wash when cards with a special site code are used by specific groups or individuals.

How to Program the Site Code #1 Cold Special Wash Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
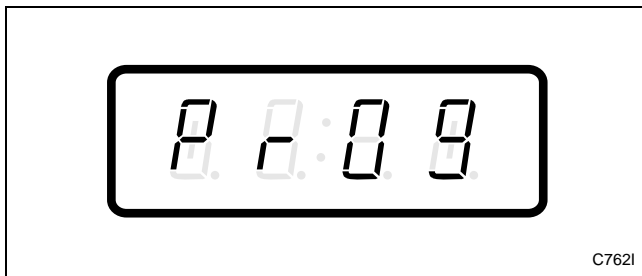

Figure 28

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+013" appears in the VFD. Refer to *Figure 29*.
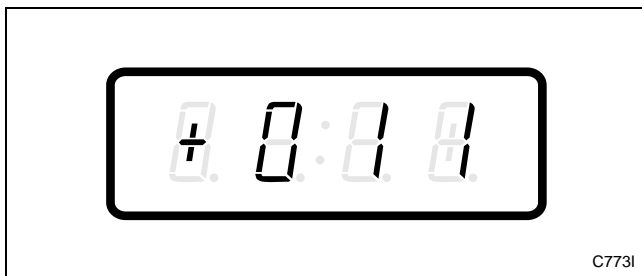

Figure 29

4. When "+013" appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Cold Special Wash Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 30*.
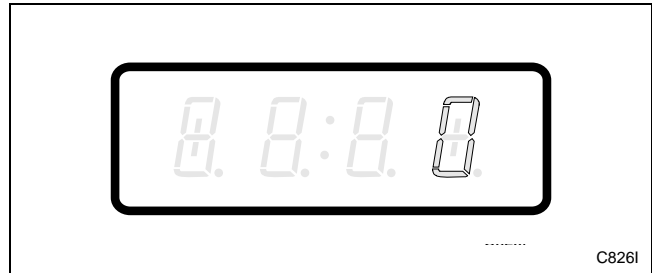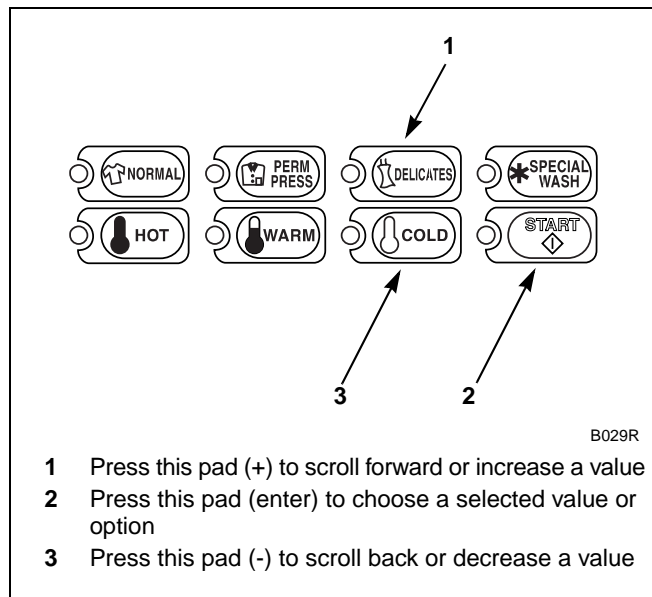

Figure 30

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 31*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 31

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 32*.

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Figure 32

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+014", will appear in the VFD.

NOTE: To program "+014" (Special Cycle Vend Price), refer to *option 14*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

14. Special Cycle Vend Price "+014"

This option allows the owner to program the machines to offer extra features to the customers for an added vend price. This vend price will be displayed in the VFD during the first 30 seconds of the first fill/agitate. Refer to *options 115*, *116* and *117* for programming these features.

How to Program Special Cycle Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 33

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+014" appears in the VFD. Refer to *Figure 34*.

Figure 34

4. When "+014" appears in the VFD, press the START (enter) keypad. There are five digits in the Special Cycle Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 35*.
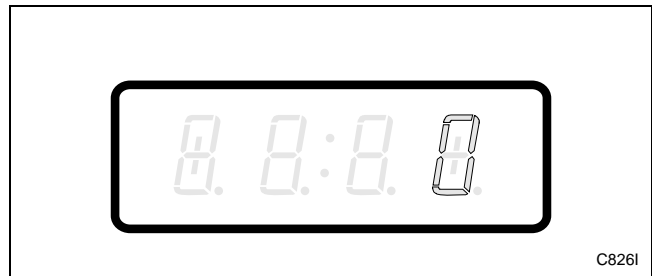
Figure 35

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 36*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 36

6. Press the START (enter) keypad to enter the fifth digit and display the remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 37*.
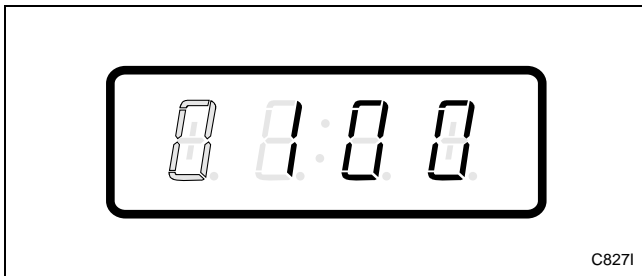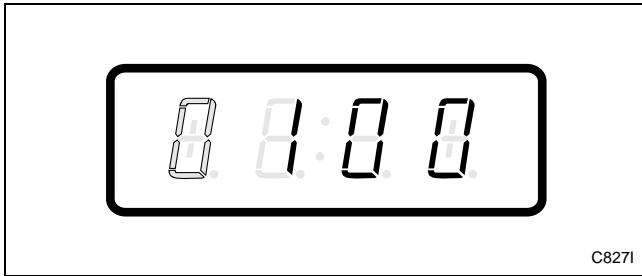

Figure 37

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+015", will appear in the VFD.

NOTE: To program "+015" (Special Vend A Days Enable), refer to *option 15* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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22. Special Vend A Site Code #1 "+022"

This option allows the owner to program the machines to accept site codes for Special Vend A that are specific to select groups or individuals when using cards. It allows the owner to only give Special Vend A pricing for a card with this site code. If Special Vend A Site Code is zero, then Special Vend A pricing will apply to all cards.

How to Program the Special Vend A Site Code #1

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 38

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+022" appears in the VFD. Refer to *Figure 39*.

Figure 39

4. When "+022" appears in the VFD, press the START (enter) keypad. There are five digits in the Special Vend A Site Code #1. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 40*.
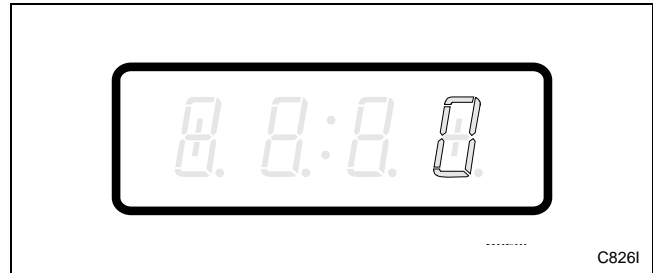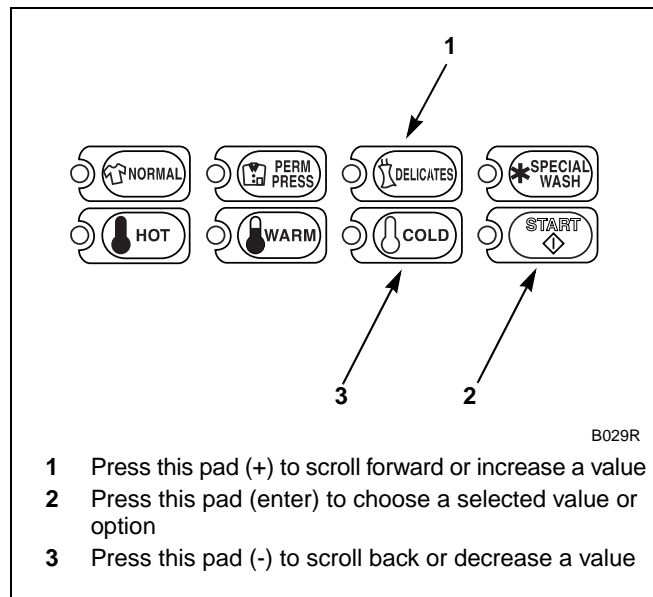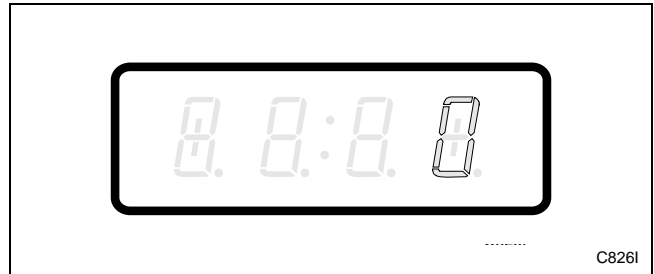

Figure 40

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 41*.
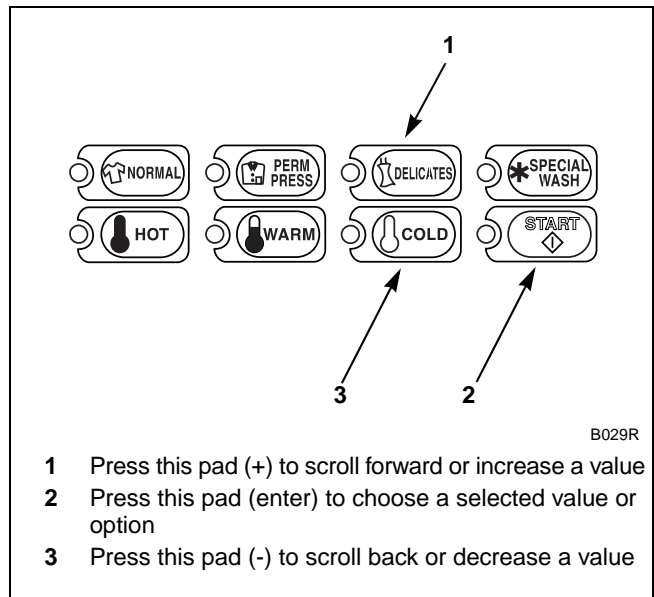
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 41

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 42*.
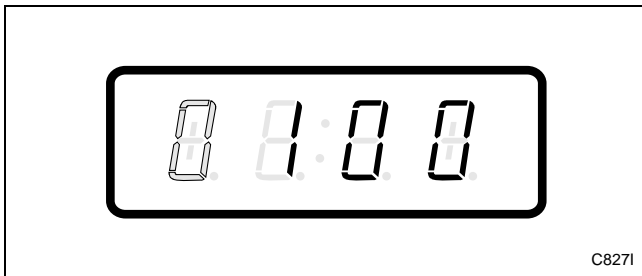

C828I
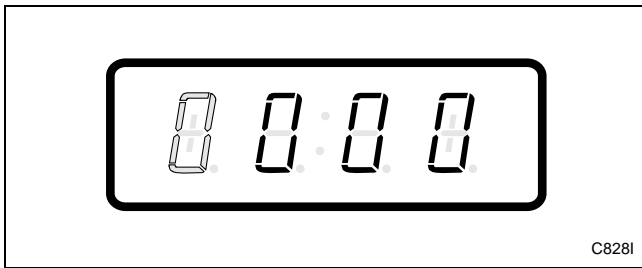
Figure 42

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "**+023**", will appear in the VFD.

NOTE: To program "+023" (Special Vend A Regular Hot Wash Vend Price), refer to *option 23* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

32. Start Pulse Value "+032"

This option allows the owner to program the value of the Start Pulse if used for multiple pulses with an after-market central card reader or pay system. Refer to *option 124* for additional information.

How to Program Start Pulse Value

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

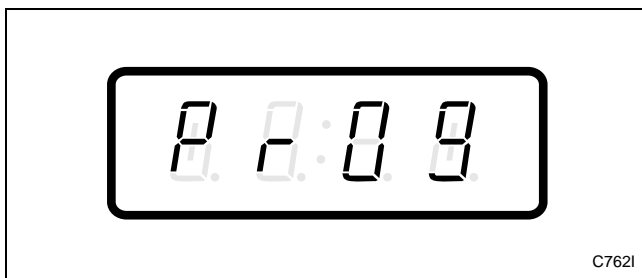2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 43

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+032" appears in the VFD. Refer to *Figure 44*.
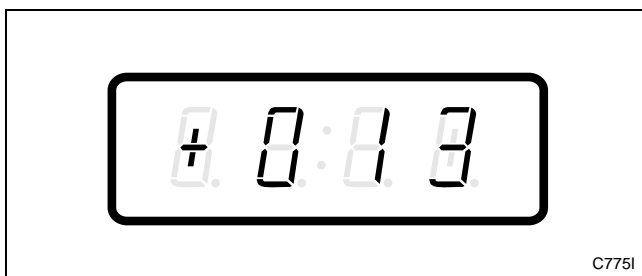
Figure 44

4. When "+032" appears in the VFD, press the START (enter) keypad. There are five digits in the Start Pulse Value. The fifth digit will appear in the VFD and will flash one second on and one second off. Refer to *Figure 45*.
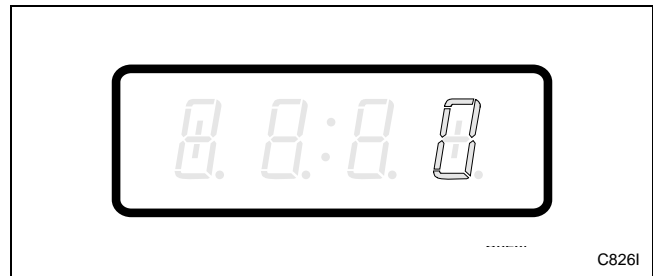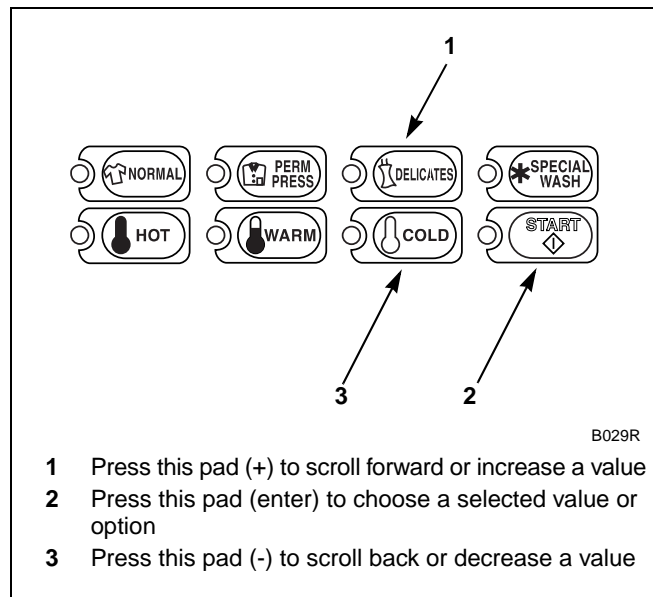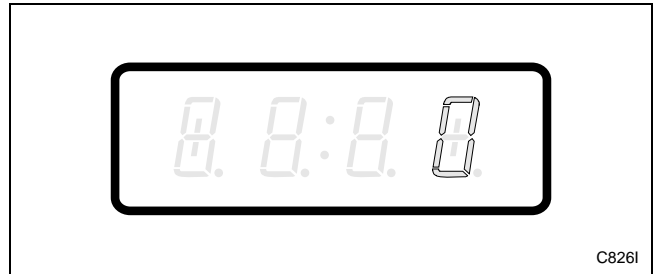
Figure 45

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 46*.
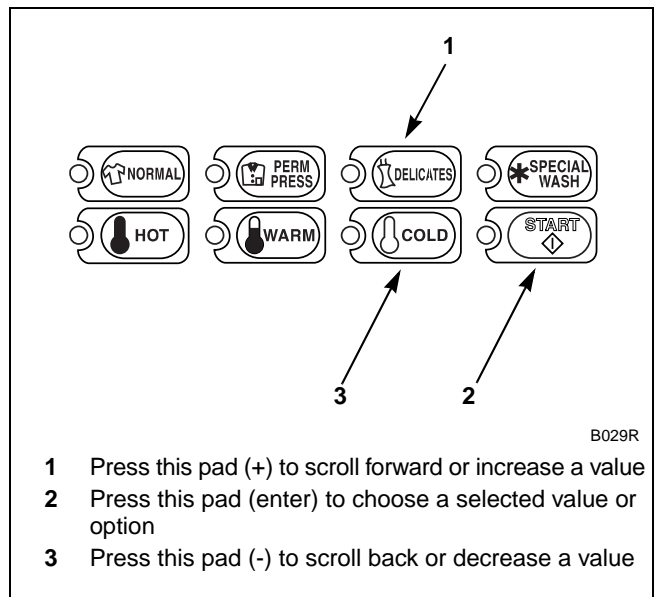
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 46

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 47*.
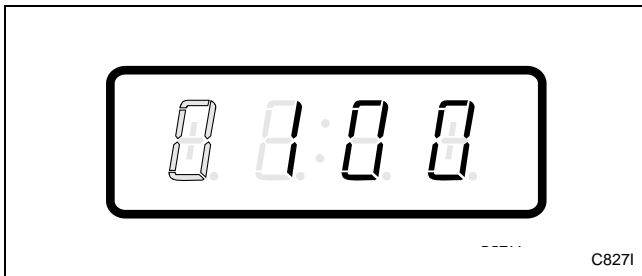

C827I
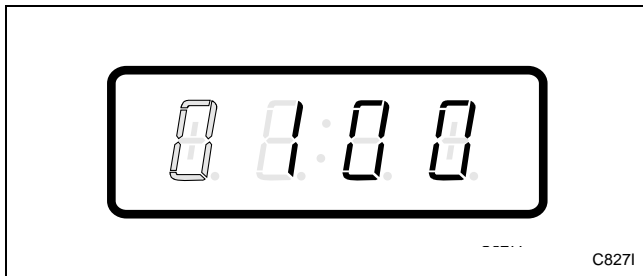
Figure 47

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "+033", will appear in the VFD.

NOTE: To program "+033" (Default Cycle/Temperature), refer to *option 33* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

34. Power Fail Reset "+034"

This option allows the owner to set the amount of time NetMaster will store active cycle information in the event of a power failure. The default settings for Power Fail Reset are five minutes and turned "OFF." If Power Fail Reset is turned "OFF," the cycle will be saved for up to six years.

How to Program Power Fail Reset

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
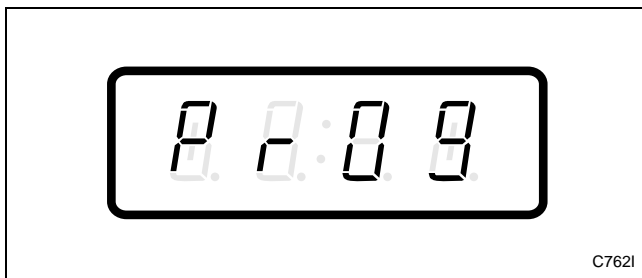

Figure 48

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+034" appears in the VFD. Refer to *Figure 49*.
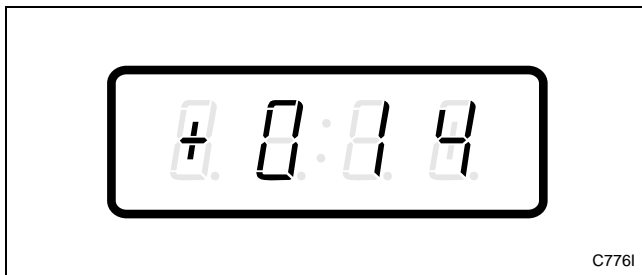

Figure 49

4. When "+034" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Power Fail Reset setting.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number to the desired number selected from *Table 1*. Refer to *Figure 50*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value
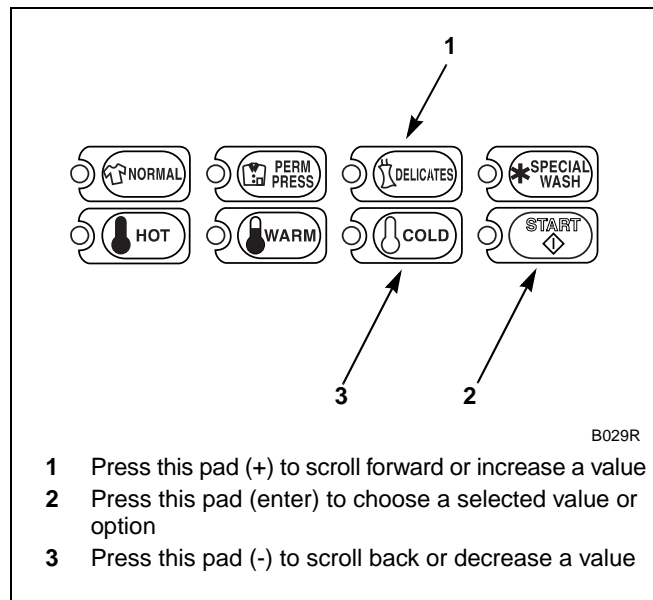
Figure 50

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+035", will appear in the VFD.

NOTE: To program "+035" (Set Real-Time Clock Minutes), refer to *option 35* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 1*

Use this table to set the amount of time for Power Fail Reset.

The table range begins at 0 and ends at 255. Numbers entered between 0 and 127 turn the option "OFF." If a number in this range is entered, the current cycle status will be saved for up to six years. When power is restored, the cycle will begin where it was interrupted.

If 133 is entered, the current cycle will be saved for up to five minutes. If power is not restored within five minutes, the control will erase the cycle status. The minimum power failure time is five minutes. The maximum power fail reset time is 127 minutes.

"+034"		
Power Fail Reset Value	**Power Fail Reset ON/OFF**	**Power Fail Reset Time**
0 – 127	OFF	0
133 – 255	**ON**	5 – 127 min.

Table 1

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43. Normal PreWash #2 Fill/Tumble Time "+043"

This option allows the owner to set the amount of time for PreWash #2 during fill and tumble of the Normal cycle.

How to Program Normal PreWash #2 Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
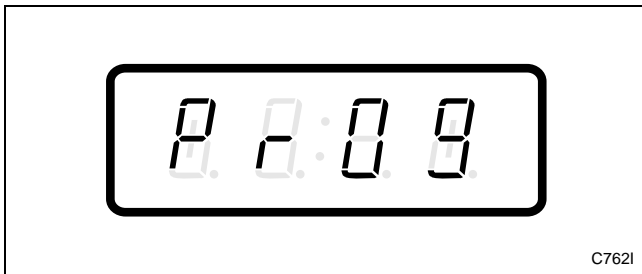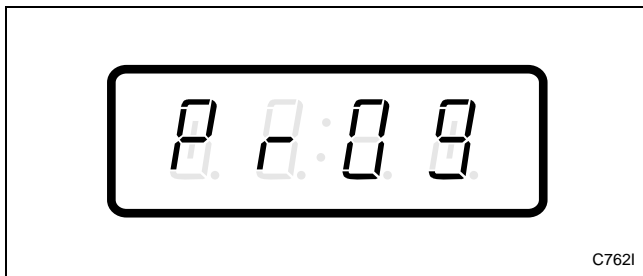

Figure 51

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+043" appears in the VFD. Refer to *Figure 52*.
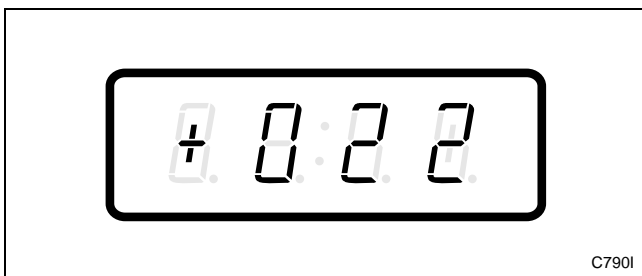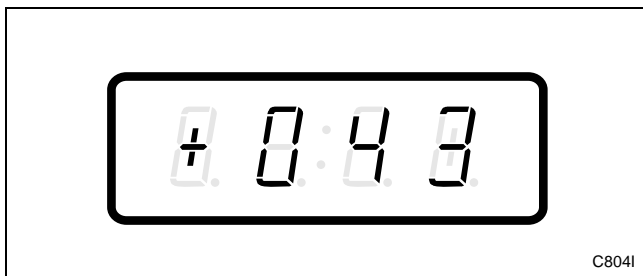

Figure 52

4. When "+043" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Normal PreWash #2 Fill/ Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 53*.

NOTE: The Normal PreWash #2 Fill/Tumble Time can be set from zero (0) to 15 minutes.
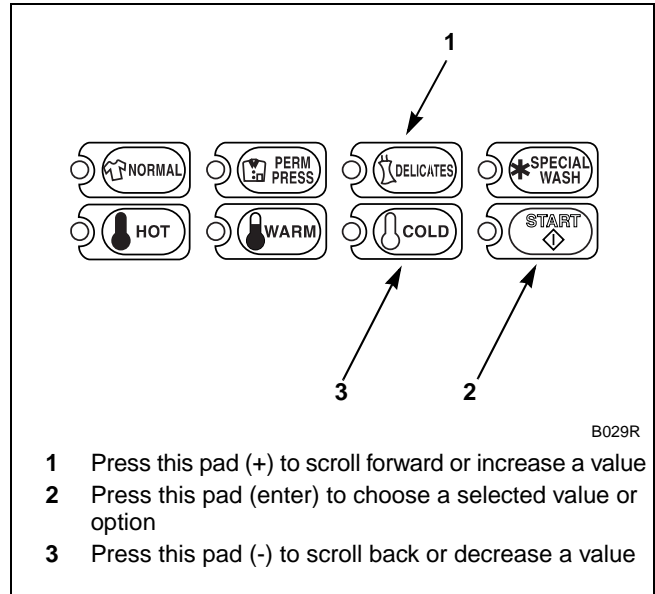
1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 53

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+044", will appear in the VFD.

NOTE: To program "+044" (Normal Wash Fill/ Tumble Time), refer to *option 44* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

46. Normal Rinse Extra Fill/Tumble Time "+046"

This option allows the owner to set the amount of extra rinse fill/tumble time for the Normal cycle.

How to Program Normal Rinse Extra Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 54

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+046" appears in the VFD. Refer to *Figure 55*.

Figure 55

4. When "+046" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Normal Rinse Extra Fill/Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 56*.

NOTE: The Normal Rinse Extra Fill/Tumble Time can be set from zero (0) to 15 minutes.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 56

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+047", will appear in the VFD.

NOTE: To program "+047" (Normal Rinse Final Fill/Tumble Time), refer to *option 47* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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49. Normal Spin Extract Speed "+049"

This option allows the owner to program the speed of extraction during the Normal cycle on Variable Frequency Drive models (NCV, NRV, or NXV) only.

How to Program Normal Spin Extract Speed

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
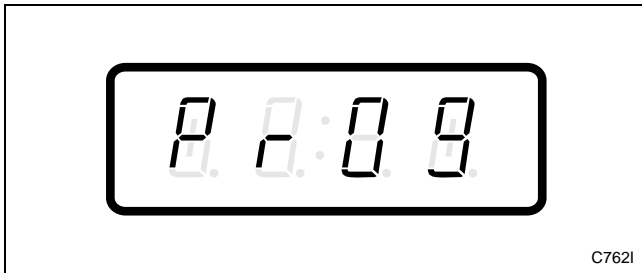

Figure 57

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+049" appears in the VFD. Refer to *Figure 58*.
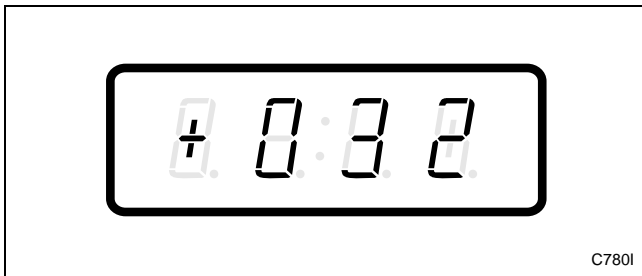

Figure 58

4. When "+049" appears in the VFD, press the START (enter) keypad. The current number set for the Normal Spin Extract Speed will appear in the VFD.

   Value of 0 = High Speed

   Value of 1 = Very High Speed

NOTE: Very High Speed is available on Variable Frequency Drive models (NRV) only.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extraction speed displayed in the VFD to the desired extraction speed. Refer to *Figure 59*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 59

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+050", will appear in the VFD.

NOTE: To program "+050" (Normal Extracts On/ Off), refer to *option 50*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

50. Normal Extracts On/Off "+050"

This option allows the owner to turn on and off intermediate extractions during the Normal cycle.

How to Program Normal Extracts On/Off

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
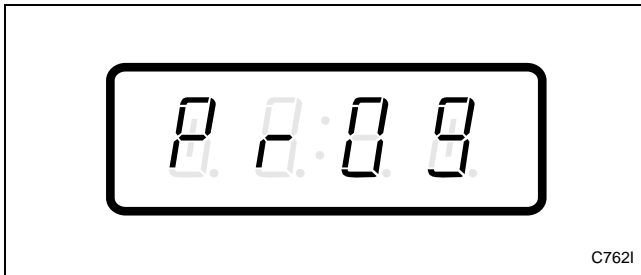

Figure 60

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+050" appears in the VFD. Refer to *Figure 61*.
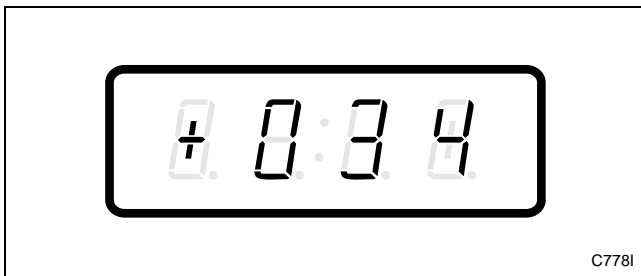

Figure 61

4. When "+050" appears in the VFD, press the START (enter) keypad. The current number set for the Normal Extracts On/Off will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extract value displayed in the VFD to the desired extract value as found in *Table 2*. Refer to *Figure 62*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 62

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+051", will appear in the VFD.

NOTE: To program "+051" (Permanent Press PreWash #1 Fill/Tumble Time), refer to *option 51* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 2*

To determine correct extract value required, review table below. Read each row from left to right. Starting number of row indicates required extract value number to be entered into electronic control.

Extract value number is followed by six option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
000	OFF	OFF	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF	OFF	OFF
003	**ON**	**ON**	OFF	OFF	OFF	OFF
004	OFF	OFF	**ON**	OFF	OFF	OFF
005	**ON**	OFF	**ON**	OFF	OFF	OFF
006	OFF	**ON**	**ON**	OFF	OFF	OFF
007	**ON**	**ON**	**ON**	OFF	OFF	OFF
008	OFF	OFF	OFF	**ON**	OFF	OFF
009	**ON**	OFF	OFF	**ON**	OFF	OFF
010	OFF	**ON**	OFF	**ON**	OFF	OFF
011	**ON**	**ON**	OFF	**ON**	OFF	OFF
012	OFF	OFF	**ON**	**ON**	OFF	OFF
013	**ON**	OFF	**ON**	**ON**	OFF	OFF
014	OFF	**ON**	**ON**	**ON**	OFF	OFF
015	**ON**	**ON**	**ON**	**ON**	OFF	OFF
016	OFF	OFF	OFF	OFF	**ON**	OFF
017	**ON**	OFF	OFF	OFF	**ON**	OFF
018	OFF	**ON**	OFF	OFF	**ON**	OFF
019	**ON**	**ON**	OFF	OFF	**ON**	OFF
020	OFF	OFF	**ON**	OFF	**ON**	OFF
021	**ON**	OFF	**ON**	OFF	**ON**	OFF
022	OFF	**ON**	**ON**	OFF	**ON**	OFF
023	**ON**	**ON**	**ON**	OFF	**ON**	OFF
024	OFF	OFF	OFF	**ON**	**ON**	OFF
025	**ON**	OFF	OFF	**ON**	**ON**	OFF
026	OFF	**ON**	OFF	**ON**	**ON**	OFF
027	**ON**	**ON**	OFF	**ON**	**ON**	OFF
028	OFF	OFF	**ON**	**ON**	**ON**	OFF
029	**ON**	OFF	**ON**	**ON**	**ON**	OFF
030	OFF	**ON**	**ON**	**ON**	**ON**	OFF
031	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
032	OFF	OFF	OFF	OFF	OFF	**ON**
033	**ON**	OFF	OFF	OFF	OFF	**ON**

Table 2 (Continued)

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Table 2 (Continued)

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
034	OFF	**ON**	OFF	OFF	OFF	**ON**
035	**ON**	**ON**	OFF	OFF	OFF	**ON**
036	OFF	OFF	**ON**	OFF	OFF	**ON**
037	**ON**	OFF	**ON**	OFF	OFF	**ON**
038	OFF	**ON**	**ON**	OFF	OFF	**ON**
039	**ON**	**ON**	**ON**	OFF	OFF	**ON**
040	OFF	OFF	OFF	**ON**	OFF	**ON**
041	**ON**	OFF	OFF	**ON**	OFF	**ON**
042	OFF	**ON**	OFF	**ON**	OFF	**ON**
043	**ON**	**ON**	OFF	**ON**	OFF	**ON**
044	OFF	OFF	**ON**	**ON**	OFF	**ON**
045	**ON**	OFF	**ON**	**ON**	OFF	**ON**
046	OFF	**ON**	**ON**	**ON**	OFF	**ON**
047	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
048	OFF	OFF	OFF	OFF	**ON**	**ON**
049	**ON**	OFF	OFF	OFF	**ON**	**ON**
050	OFF	**ON**	OFF	OFF	**ON**	**ON**
051	**ON**	**ON**	OFF	OFF	**ON**	**ON**
052	OFF	OFF	**ON**	OFF	**ON**	**ON**
053	**ON**	OFF	**ON**	OFF	**ON**	**ON**
054	OFF	**ON**	**ON**	OFF	**ON**	**ON**
055	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
056	OFF	OFF	OFF	**ON**	**ON**	**ON**
057	**ON**	OFF	OFF	**ON**	**ON**	**ON**
058	OFF	**ON**	OFF	**ON**	**ON**	**ON**
059	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
060	OFF	OFF	**ON**	**ON**	**ON**	**ON**
061	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
062	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
063	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**

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52. Permanent Press PreWash #2 Fill/Tumble Time "+052"

This option allows the owner to set the amount of PreWash #2 fill/tumble time for the Permanent Press cycle.

How to Program Permanent Press PreWash #2 Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
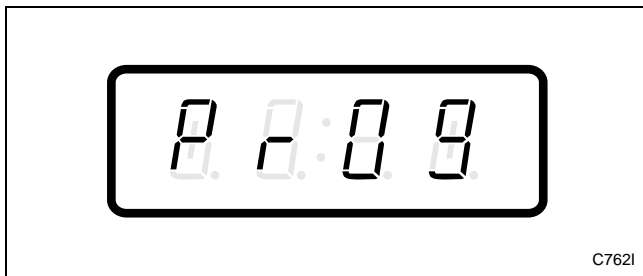

C762I
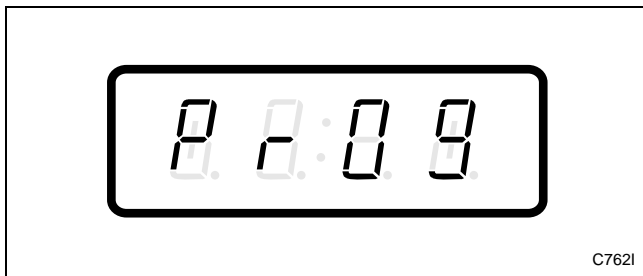
Figure 63

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+052" appears in the VFD. Refer to *Figure 64*.
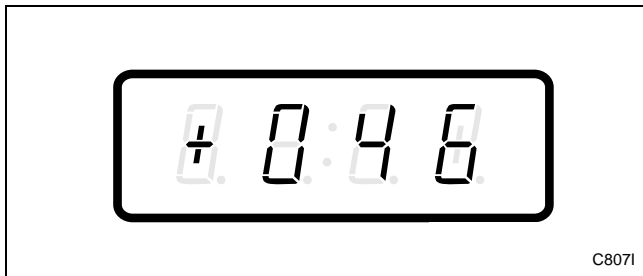

C813I
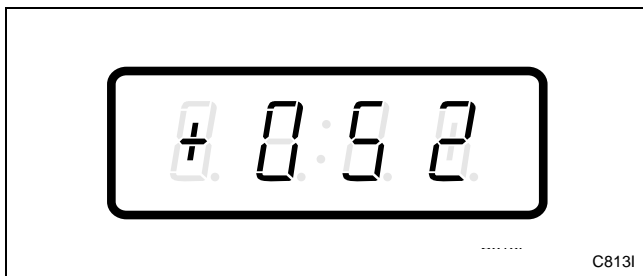
Figure 64

4. When "+052" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Permanent Press PreWash #2 Fill/Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 65*.

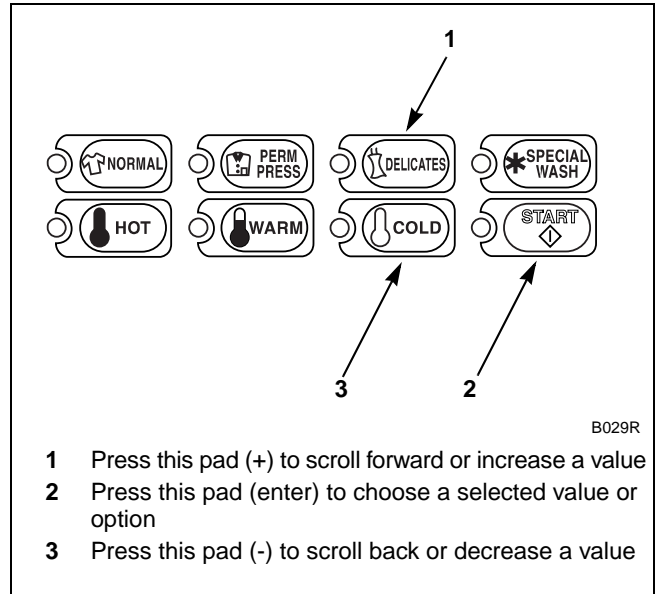**NOTE: The Permanent Press PreWash #2 Fill/Tumble Time can be set from zero (0) to 15 minutes.**
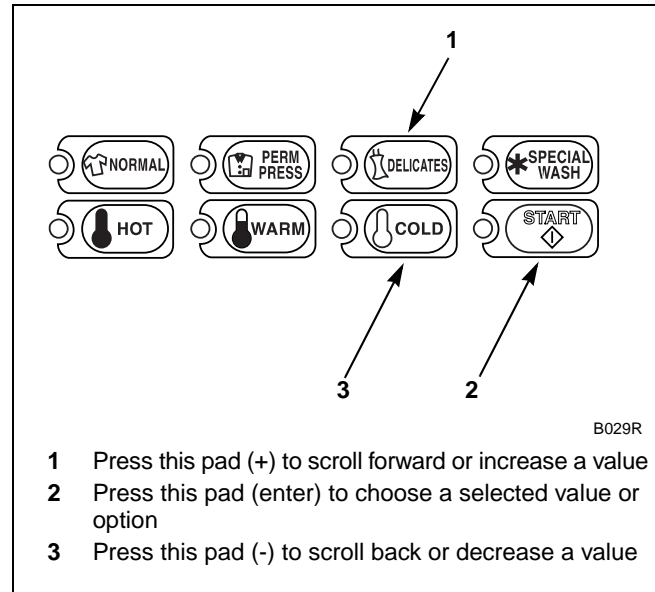
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1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 65

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+053", will appear in the VFD.

NOTE: To program "+053" (Permanent Press Wash Fill/Tumble Time), refer to *option 53* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

55. Permanent Press Rinse Extra Fill/Tumble Time "+055"

This option allows the owner to set the amount of extra rinse fill/tumble time for the Permanent Press cycle.

How to Program Permanent Press Rinse Extra Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
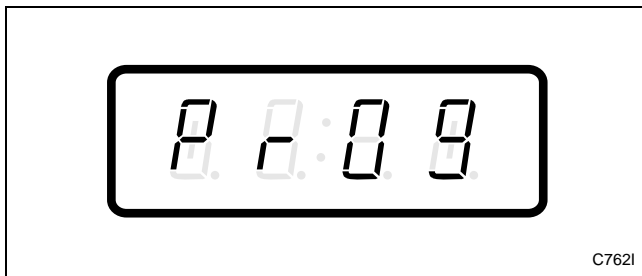

Figure 66

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+055" appears in the VFD. Refer to *Figure 67*.
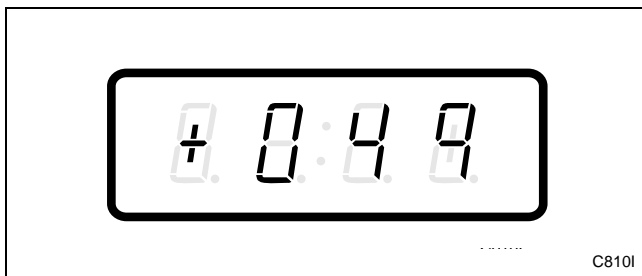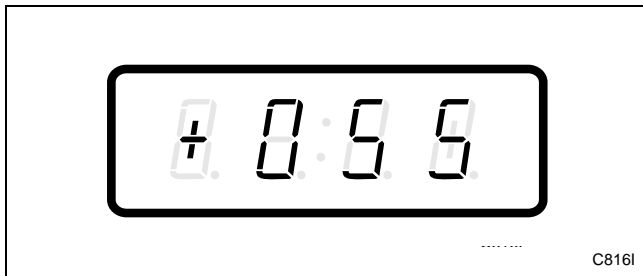

Figure 67

4. When "+055" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Permanent Press Rinse Extra Fill/Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 68*.

NOTE: The Permanent Press Rinse Extra Fill/Tumble Time can be set from zero (0) to 15 minutes.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value
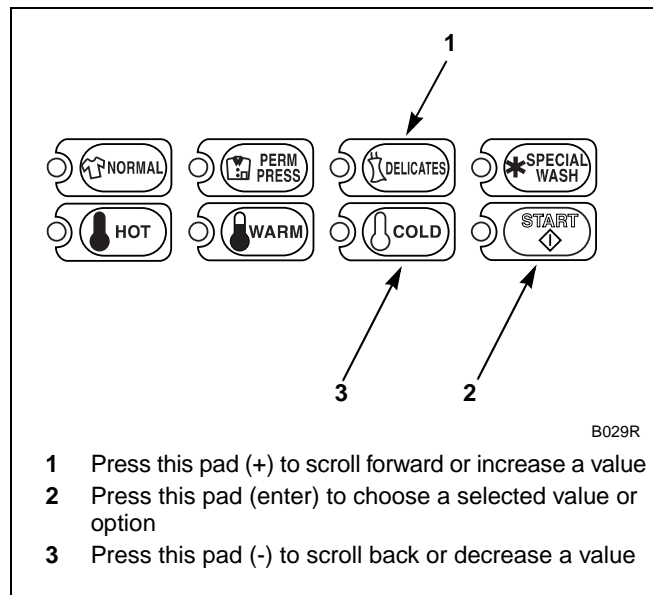
Figure 68

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+056", will appear in the VFD.

NOTE: To program "+056" (Permanent Press Rinse Final Fill/Tumble Time), refer to *option 56* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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58. Permanent Press Spin Extract Speed "+058"

This option allows the owner to program the speed of extraction during the Permanent Press cycle on Variable Frequency Drive models (NCV, NRV, or NXV) only.

How to Program Permanent Press Spin Extract Speed

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
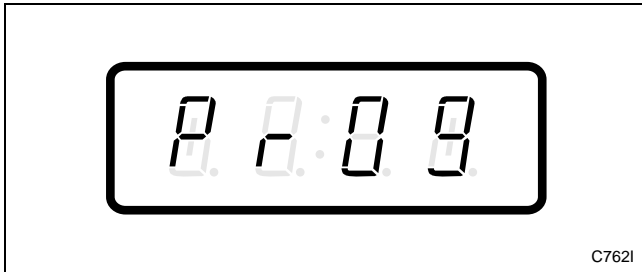

Figure 69

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+058" appears in the VFD. Refer to *Figure 70*.
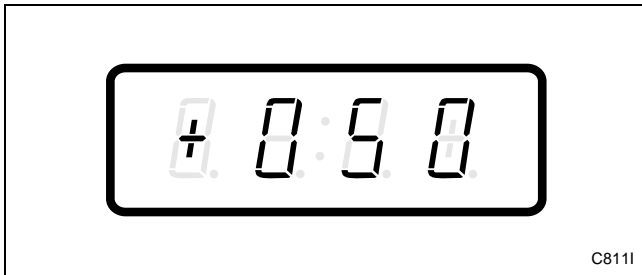

Figure 70

4. When "+058" appears in the VFD, press the START (enter) keypad. The current number set for the Permanent Press Spin Extract Speed will appear in the VFD.

   Value of 0 = High Speed

   Value of 1 = Very High Speed

NOTE: Very High Speed is available on Variable Frequency Drive models (NRV) only.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extraction speed displayed in the VFD to the desired extraction speed. Refer to *Figure 71*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value
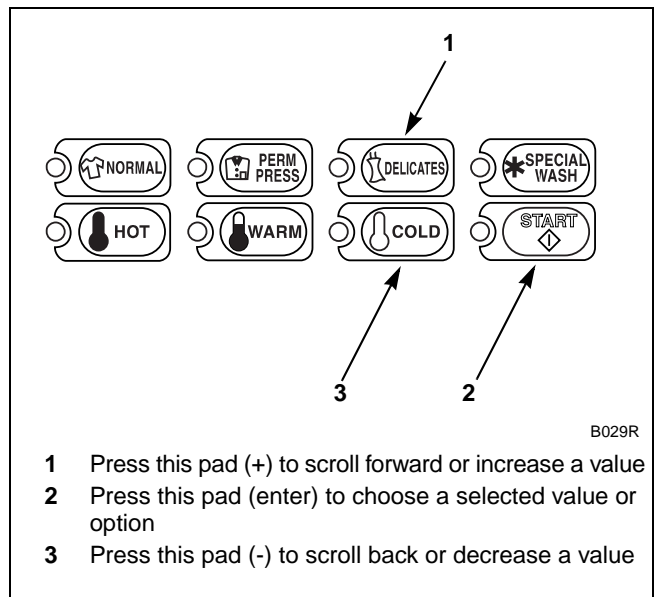
Figure 71

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+059", will appear in the VFD.

NOTE: To program "+059" (Permanent Press Extracts On/Off), refer to *option 59*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

59. Permanent Press Extracts On/Off "+059"

This option allows the owner to turn on and off intermediate extractions during the Permanent Press cycle.

How to Program Permanent Press Extracts On/Off

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 72

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+059" appears in the VFD. Refer to *Figure 73*.

Figure 73

4. When "+059" appears in the VFD, press the START (enter) keypad. The current number set for the Permanent Press Extracts On/Off will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extract value displayed in the VFD to the desired extract value. Refer to *Figure 74*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 74

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+060", will appear in the VFD.

NOTE: To program "+060" (Delicates PreWash #1 Fill/Tumble Time), refer to *option 60*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 3*

To determine correct extract value required, review table below. Read each row from left to right. Starting number of row indicates required extract value number to be entered into electronic control.

Extract value number is followed by six option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
000	OFF	OFF	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF	OFF	OFF
003	**ON**	**ON**	OFF	OFF	OFF	OFF
004	OFF	OFF	**ON**	OFF	OFF	OFF
005	**ON**	OFF	**ON**	OFF	OFF	OFF
006	OFF	**ON**	**ON**	OFF	OFF	OFF
007	**ON**	**ON**	**ON**	OFF	OFF	OFF
008	OFF	OFF	OFF	**ON**	OFF	OFF
009	**ON**	OFF	OFF	**ON**	OFF	OFF
010	OFF	**ON**	OFF	**ON**	OFF	OFF
011	**ON**	**ON**	OFF	**ON**	OFF	OFF
012	OFF	OFF	**ON**	**ON**	OFF	OFF
013	**ON**	OFF	**ON**	**ON**	OFF	OFF
014	OFF	**ON**	**ON**	**ON**	OFF	OFF
015	**ON**	**ON**	**ON**	**ON**	OFF	OFF
016	OFF	OFF	OFF	OFF	**ON**	OFF
017	**ON**	OFF	OFF	OFF	**ON**	OFF
018	OFF	**ON**	OFF	OFF	**ON**	OFF
019	**ON**	**ON**	OFF	OFF	**ON**	OFF
020	OFF	OFF	**ON**	OFF	**ON**	OFF
021	**ON**	OFF	**ON**	OFF	**ON**	OFF
022	OFF	**ON**	**ON**	OFF	**ON**	OFF
023	**ON**	**ON**	**ON**	OFF	**ON**	OFF
024	OFF	OFF	OFF	**ON**	**ON**	OFF
025	**ON**	OFF	OFF	**ON**	**ON**	OFF
026	OFF	**ON**	OFF	**ON**	**ON**	OFF
027	**ON**	**ON**	OFF	**ON**	**ON**	OFF
028	OFF	OFF	**ON**	**ON**	**ON**	OFF
029	**ON**	OFF	**ON**	**ON**	**ON**	OFF
030	OFF	**ON**	**ON**	**ON**	**ON**	OFF
031	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
032	OFF	OFF	OFF	OFF	OFF	**ON**
033	**ON**	OFF	OFF	OFF	OFF	**ON**

Table 3 (Continued)

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Table 3 (Continued)

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
034	OFF	**ON**	OFF	OFF	OFF	**ON**
035	**ON**	**ON**	OFF	OFF	OFF	**ON**
036	OFF	OFF	**ON**	OFF	OFF	**ON**
037	**ON**	OFF	**ON**	OFF	OFF	**ON**
038	OFF	**ON**	**ON**	OFF	OFF	**ON**
039	**ON**	**ON**	**ON**	OFF	OFF	**ON**
040	OFF	OFF	OFF	**ON**	OFF	**ON**
041	**ON**	OFF	OFF	**ON**	OFF	**ON**
042	OFF	**ON**	OFF	**ON**	OFF	**ON**
043	**ON**	**ON**	OFF	**ON**	OFF	**ON**
044	OFF	OFF	**ON**	**ON**	OFF	**ON**
045	**ON**	OFF	**ON**	**ON**	OFF	**ON**
046	OFF	**ON**	**ON**	**ON**	OFF	**ON**
047	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
048	OFF	OFF	OFF	OFF	**ON**	**ON**
049	**ON**	OFF	OFF	OFF	**ON**	**ON**
050	OFF	**ON**	OFF	OFF	**ON**	**ON**
051	**ON**	**ON**	OFF	OFF	**ON**	**ON**
052	OFF	OFF	**ON**	OFF	**ON**	**ON**
053	**ON**	OFF	**ON**	OFF	**ON**	**ON**
054	OFF	**ON**	**ON**	OFF	**ON**	**ON**
055	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
056	OFF	OFF	OFF	**ON**	**ON**	**ON**
057	**ON**	OFF	OFF	**ON**	**ON**	**ON**
058	OFF	**ON**	OFF	**ON**	**ON**	**ON**
059	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
060	OFF	OFF	**ON**	**ON**	**ON**	**ON**
061	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
062	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
063	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**

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60. Delicates PreWash #1 Fill/Tumble Time "+060"

This option allows the owner to set the amount of PreWash #1 fill/tumble time for the Delicates cycle.

How to Program Delicates PreWash #1 Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
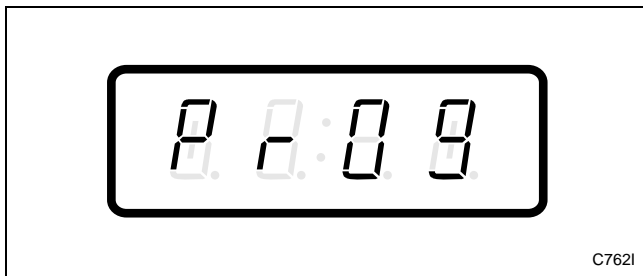

Figure 75

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+060" appears in the VFD. Refer to *Figure 76*.

Figure 76

4. When "+060" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Delicates PreWash #1 Fill/Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 77*.

NOTE: The Delicates PreWash #1 Fill/Tumble Time can be set from zero (0) to 15 minutes.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value
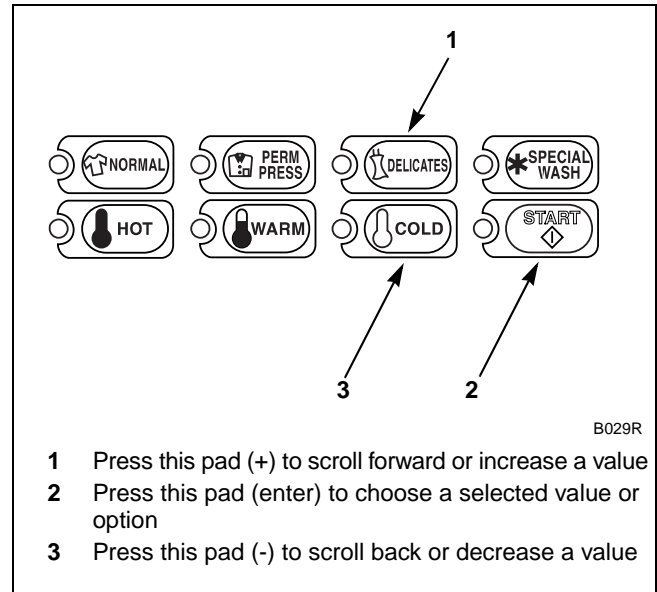
Figure 77

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+061", will appear in the VFD.

NOTE: To program "+061" (Delicates PreWash #2 Fill/Tumble Time), refer to *option 61*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

61. Delicates PreWash #2 Fill/Tumble Time "+061"

This option allows the owner to set the amount of PreWash #2 fill/tumble time for the Delicates cycle.

How to Program Delicates PreWash #2 Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
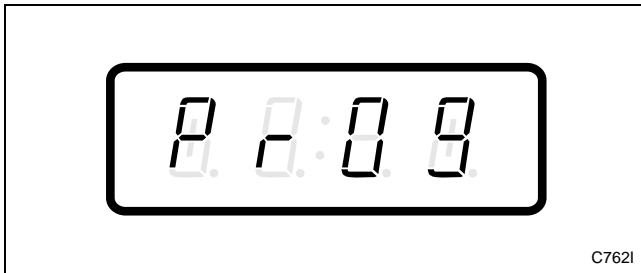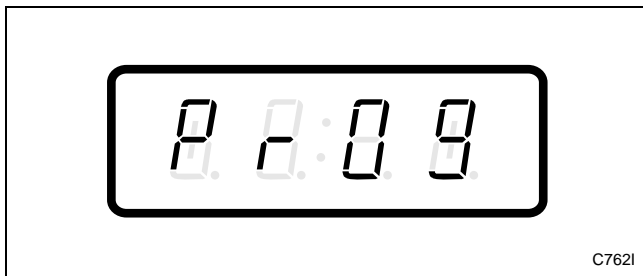

Figure 78

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+061" appears in the VFD. Refer to *Figure 79*.
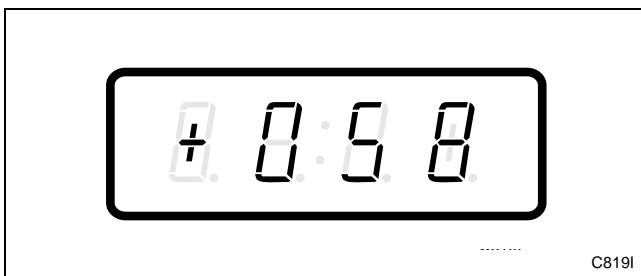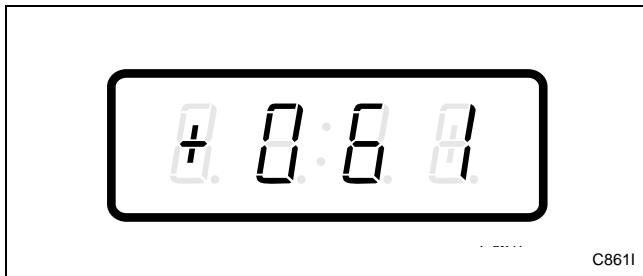

Figure 79

4. When "+061" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Delicates PreWash #2 Fill/Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 80*.

NOTE: The Delicates PreWash #2 Fill/Tumble Time can be set from zero (0) to 15 minutes.
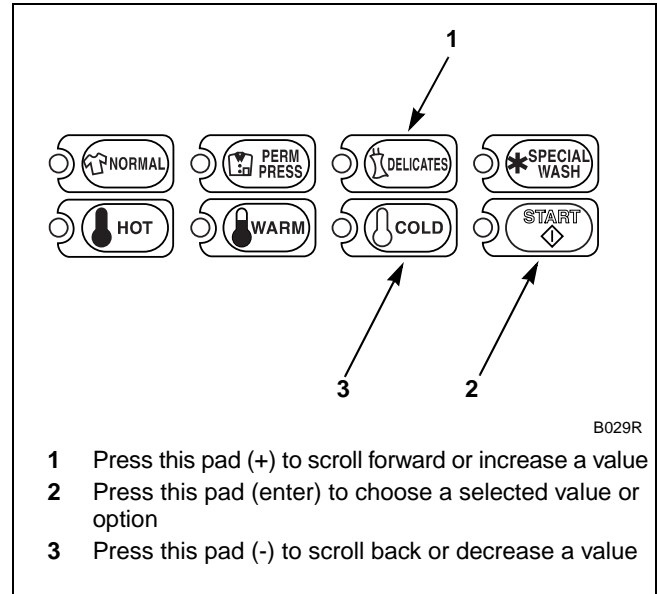
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
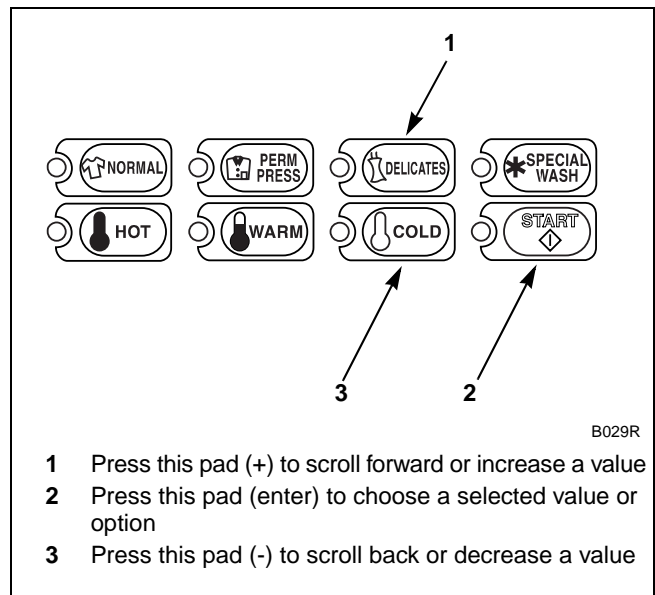3 Press this pad (-) to scroll back or decrease a value

Figure 80

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+062", will appear in the VFD.

NOTE: To program "+062" (Delicates Wash Fill/Tumble Time), refer to *option 62* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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64. Delicates Rinse Extra Fill/ Tumble Time "+064"

This option allows the owner to set the amount of extra rinse fill/tumble time for the Delicates cycle.

How to Program Delicates Rinse Extra Fill/ Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
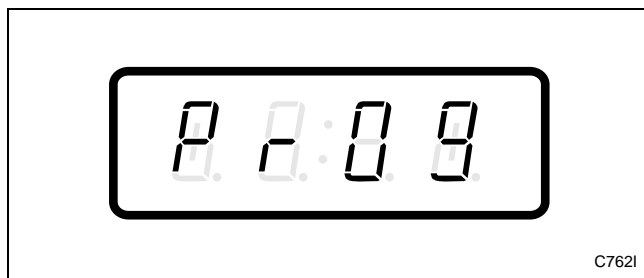

Figure 81

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+064" appears in the VFD. Refer to *Figure 82*.
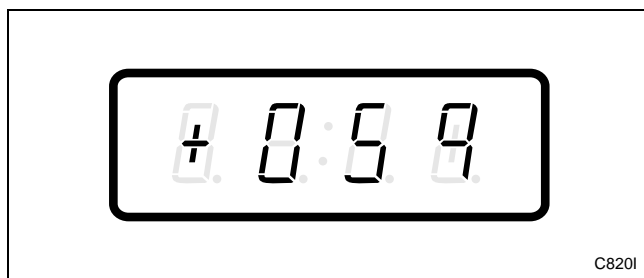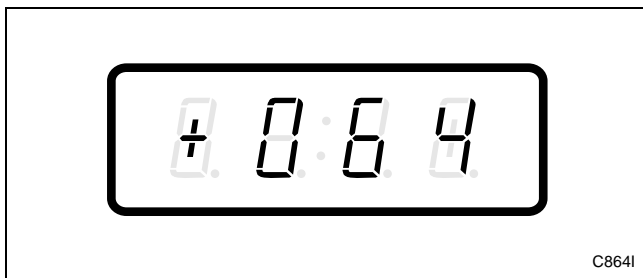

Figure 82

4. When "+064" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Delicates Rinse Extra Fill/ Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 83*.

NOTE: The Delicates Rinse Extra Fill/Tumble Time can be set from zero (0) to 15 minutes.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
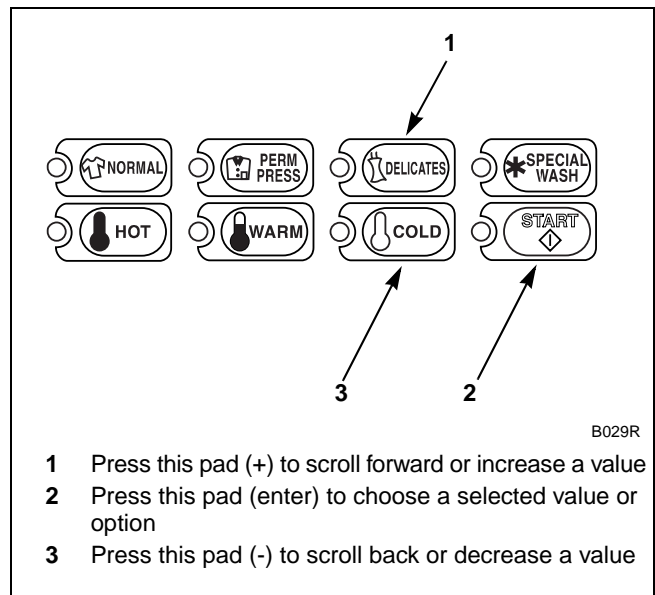**3** Press this pad (-) to scroll back or decrease a value
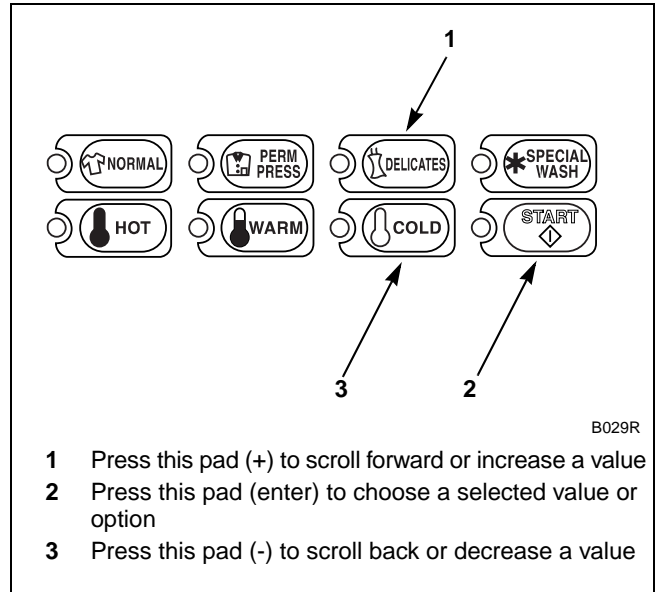
Figure 83

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+065", will appear in the VFD.

NOTE: To program "+065" (Delicates Rinse Final Fill/Tumble Time), refer to *option 65* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

67. Delicates Spin Extract Speed "+067"

This option allows the owner to program the speed of extraction during the Delicates cycle on Variable Frequency Drive models (NCV, NRV, or NXV) only.

How to Program Delicates Spin Extract Speed

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 84

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+067" appears in the VFD. Refer to *Figure 85*.
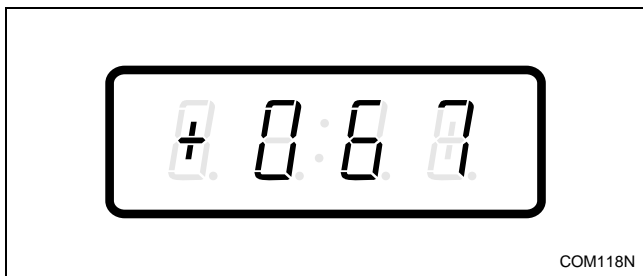
Figure 85

4. When "+067" appears in the VFD, press the START (enter) keypad. The current number set for the Delicates Spin Extract Speed will appear in the VFD.

   Value of 0 = High Speed

   Value of 1 = Very High Speed

NOTE: Very High Speed is available on Variable Frequency Drive models (NRV) only.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extraction speed displayed in the VFD to the desired extraction speed. Refer to *Figure 86*.
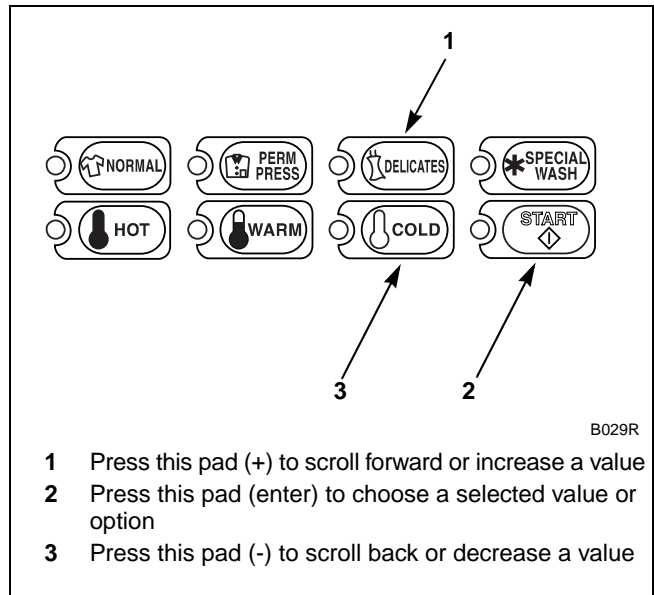
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1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 86

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+068", will appear in the VFD.

NOTE: To program "+068" (Delicates Extracts On/Off), refer to *option 68*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

68. Delicates Extracts On/Off "+068"

This option allows the owner to turn on and off intermediate extractions during the Delicates cycle.

How to Program Delicates Extracts On/Off

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
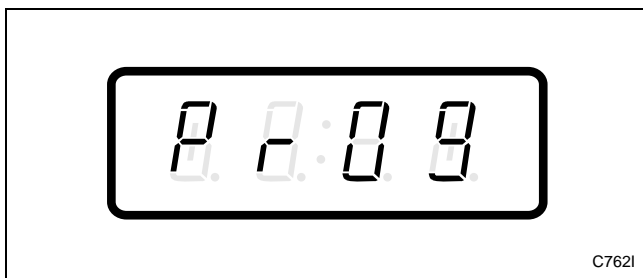

Figure 87

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+068" appears in the VFD. Refer to *Figure 88*.
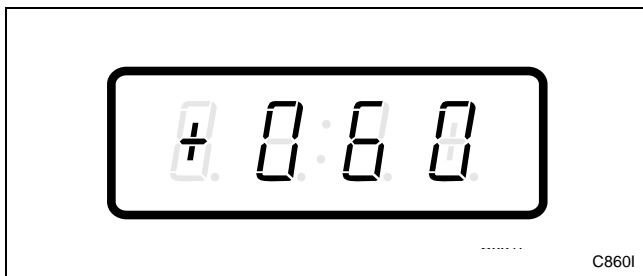

Figure 88

4. When "+068" appears in the VFD, press the START (enter) keypad. The current number set for the Delicates Extracts On/Off will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extract value displayed in the VFD to the desired extract value. Refer to *Figure 89*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value
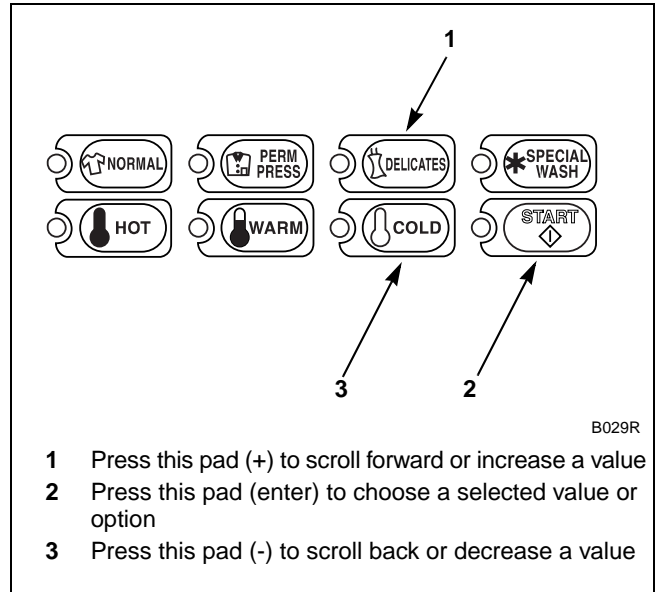
Figure 89

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+069", will appear in the VFD.

NOTE: To program "+069" (Special Wash PreWash #1 Fill/Tumble Time), refer to *option 69* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Programming NetMaster

Reading *Table 4*

To determine correct extract value required, review table below. Read each row from left to right. Starting number of row indicates required extract value number to be entered into electronic control.

Extract value number is followed by six option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
000	OFF	OFF	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF	OFF	OFF
003	**ON**	**ON**	OFF	OFF	OFF	OFF
004	OFF	OFF	**ON**	OFF	OFF	OFF
005	**ON**	OFF	**ON**	OFF	OFF	OFF
006	OFF	**ON**	**ON**	OFF	OFF	OFF
007	**ON**	**ON**	**ON**	OFF	OFF	OFF
008	OFF	OFF	OFF	**ON**	OFF	OFF
009	**ON**	OFF	OFF	**ON**	OFF	OFF
010	OFF	**ON**	OFF	**ON**	OFF	OFF
011	**ON**	**ON**	OFF	**ON**	OFF	OFF
012	OFF	OFF	**ON**	**ON**	OFF	OFF
013	**ON**	OFF	**ON**	**ON**	OFF	OFF
014	OFF	**ON**	**ON**	**ON**	OFF	OFF
015	**ON**	**ON**	**ON**	**ON**	OFF	OFF
016	OFF	OFF	OFF	OFF	**ON**	OFF
017	**ON**	OFF	OFF	OFF	**ON**	OFF
018	OFF	**ON**	OFF	OFF	**ON**	OFF
019	**ON**	**ON**	OFF	OFF	**ON**	OFF
020	OFF	OFF	**ON**	OFF	**ON**	OFF
021	**ON**	OFF	**ON**	OFF	**ON**	OFF
022	OFF	**ON**	**ON**	OFF	**ON**	OFF
023	**ON**	**ON**	**ON**	OFF	**ON**	OFF
024	OFF	OFF	OFF	**ON**	**ON**	OFF
025	**ON**	OFF	OFF	**ON**	**ON**	OFF
026	OFF	**ON**	OFF	**ON**	**ON**	OFF
027	**ON**	**ON**	OFF	**ON**	**ON**	OFF
028	OFF	OFF	**ON**	**ON**	**ON**	OFF
029	**ON**	OFF	**ON**	**ON**	**ON**	OFF
030	OFF	**ON**	**ON**	**ON**	**ON**	OFF
031	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
032	OFF	OFF	OFF	OFF	OFF	**ON**
033	**ON**	OFF	OFF	OFF	OFF	**ON**

Table 4 (Continued)

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Table 4 (Continued)

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
034	OFF	**ON**	OFF	OFF	OFF	**ON**
035	**ON**	**ON**	OFF	OFF	OFF	**ON**
036	OFF	OFF	**ON**	OFF	OFF	**ON**
037	**ON**	OFF	**ON**	OFF	OFF	**ON**
038	OFF	**ON**	**ON**	OFF	OFF	**ON**
039	**ON**	**ON**	**ON**	OFF	OFF	**ON**
040	OFF	OFF	OFF	**ON**	OFF	**ON**
041	**ON**	OFF	OFF	**ON**	OFF	**ON**
042	OFF	**ON**	OFF	**ON**	OFF	**ON**
043	**ON**	**ON**	OFF	**ON**	OFF	**ON**
044	OFF	OFF	**ON**	**ON**	OFF	**ON**
045	**ON**	OFF	**ON**	**ON**	OFF	**ON**
046	OFF	**ON**	**ON**	**ON**	OFF	**ON**
047	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
048	OFF	OFF	OFF	OFF	**ON**	**ON**
049	**ON**	OFF	OFF	OFF	**ON**	**ON**
050	OFF	**ON**	OFF	OFF	**ON**	**ON**
051	**ON**	**ON**	OFF	OFF	**ON**	**ON**
052	OFF	OFF	**ON**	OFF	**ON**	**ON**
053	**ON**	OFF	**ON**	OFF	**ON**	**ON**
054	OFF	**ON**	**ON**	OFF	**ON**	**ON**
055	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
056	OFF	OFF	OFF	**ON**	**ON**	**ON**
057	**ON**	OFF	OFF	**ON**	**ON**	**ON**
058	OFF	**ON**	OFF	**ON**	**ON**	**ON**
059	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
060	OFF	OFF	**ON**	**ON**	**ON**	**ON**
061	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
062	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
063	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**

70. Special Wash PreWash #2 Fill/Tumble Time "+070"

This option allows the owner to set the amount of time for PreWash #2 during fill and tumble of the Special Wash cycle.

How to Program Special Wash PreWash #2 Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
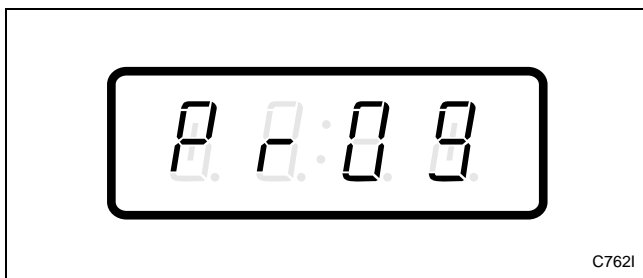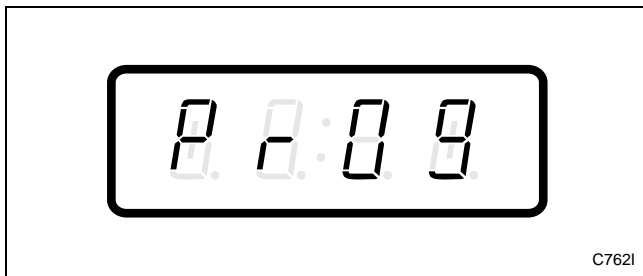

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Figure 90

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+070" appears in the VFD. Refer to *Figure 91*.


COM120N
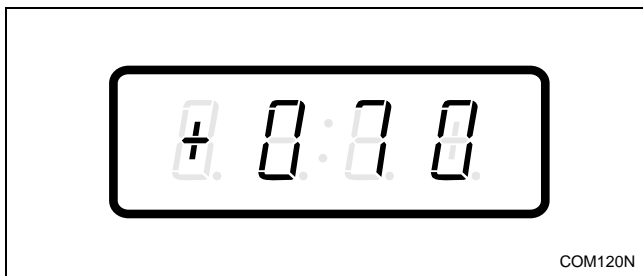
Figure 91

4. When "+070" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Special Wash PreWash #2 Fill/Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 92*.

NOTE: The Special Wash PreWash #2 Fill/Tumble Time can be set from zero (0) to 15 minutes.
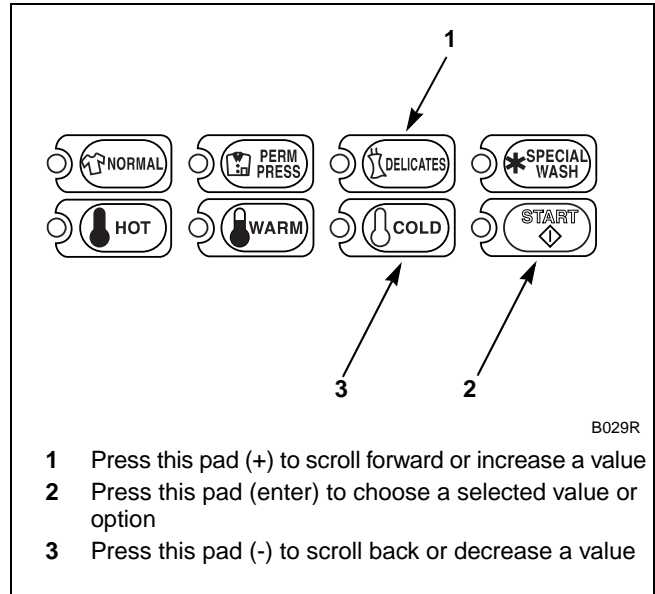
B029R

1. Press this pad (+) to scroll forward or increase a value
2. Press this pad (enter) to choose a selected value or option
3. Press this pad (-) to scroll back or decrease a value

Figure 92

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+071", will appear in the VFD.

NOTE: To program "+071" (Special Wash Wash Fill/Tumble Time), refer to *option 71* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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73. Special Wash Rinse Extra Fill/ Tumble Time "+073"

This option allows the owner to set the amount of time for an extra rinse fill/tumble in the Special Wash cycle.

How to Program Special Wash Rinse Extra Fill/Tumble Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
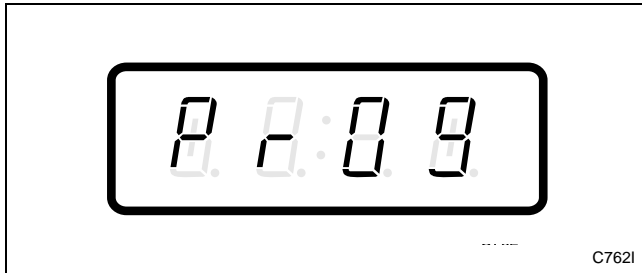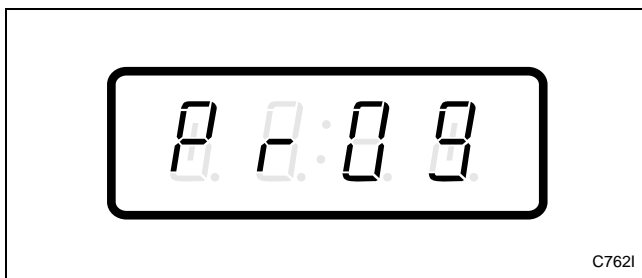

Figure 93

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+073" appears in the VFD. Refer to *Figure 94*.
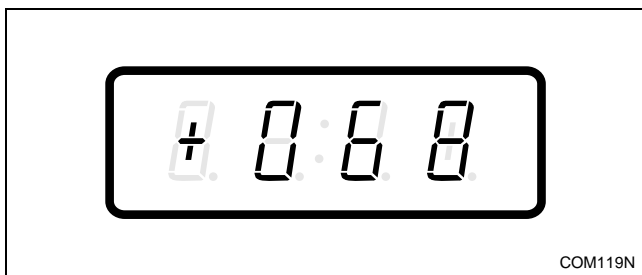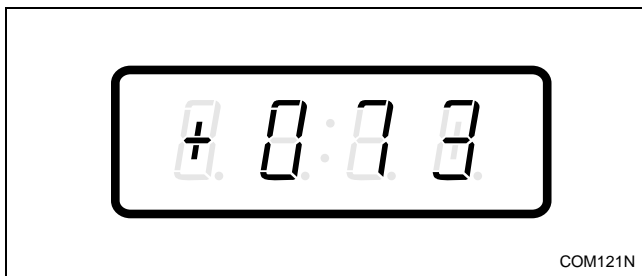

Figure 94

4. When "+073" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Special Wash Rinse Extra Fill/ Tumble Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 95*.

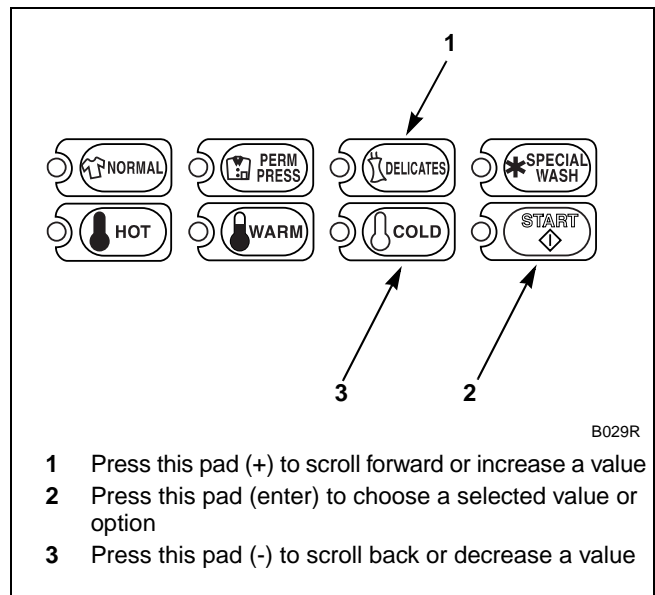**NOTE: The Special Wash Rinse Extra Fill/Tumble Time can be set from zero (0) to 15 minutes.**

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 95

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+074", will appear in the VFD.

NOTE: To program "+074" (Special Wash Rinse Final Fill/Tumble Time), refer to *option 74* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

76. Special Wash Spin Extract Speed "+076"

This option allows the owner to program the speed of extraction during the Special Wash cycle on Variable Frequency Drive models (NCV, NRV, or NXV) only.

How to Program Special Wash Spin Extract Speed

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 96

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+076" appears in the VFD. Refer to *Figure 97*.
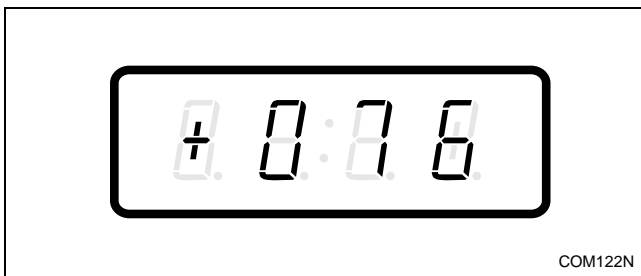
Figure 97

4. When "+076" appears in the VFD, press the START (enter) keypad. The current number set for the Special Wash Spin Extract Speed will appear in the VFD.

   Value of 0 = High Speed

   Value of 1 = Very High Speed

NOTE: Very High Speed is available on Variable Frequency Drive models (NRV) only.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extraction speed displayed in the VFD to the desired extraction speed. Refer to *Figure 98*.
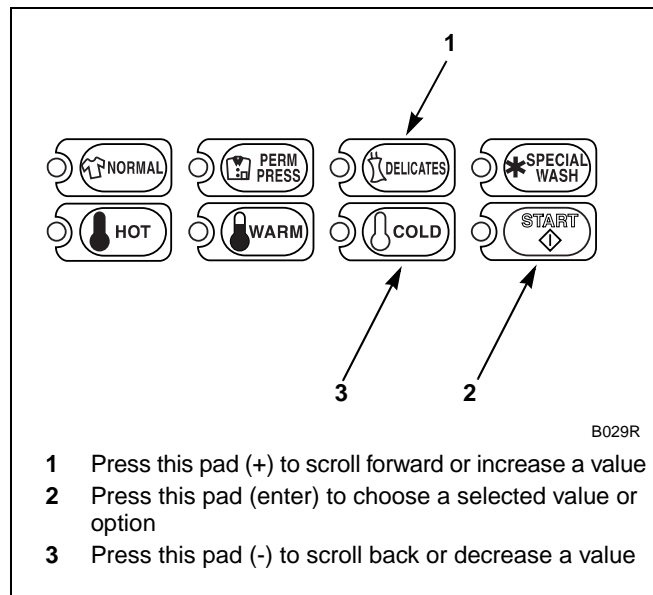
1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 98

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+077", will appear in the VFD.

NOTE: To program "+077" (Special Wash Extracts On/Off), refer to *option 77*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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77. Special Wash Extracts On/Off "+077"

This option allows the owner to turn on and off intermediate extractions during the Special Wash cycle.

How to Program Special Wash Extracts On/Off

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
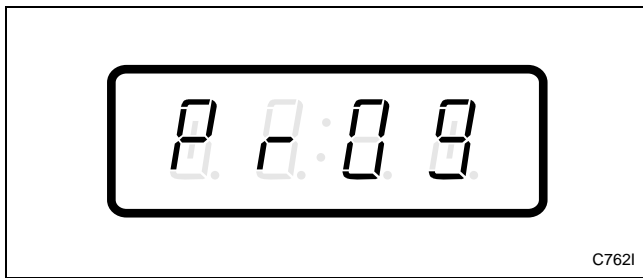

Figure 99

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+077" appears in the VFD. Refer to *Figure 100*.
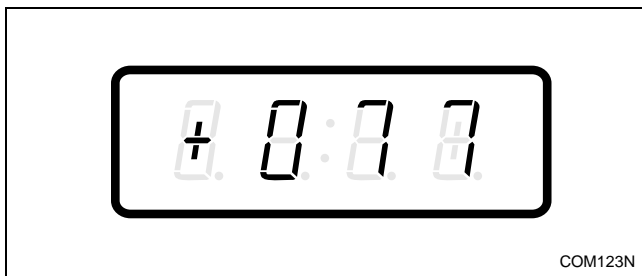
Figure 100

4. When "+077" appears in the VFD, press the START (enter) keypad. The current number set for the Special Wash Extracts On/Off will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current extract value displayed in the VFD to the desired extract value. Refer to *Figure 101*.
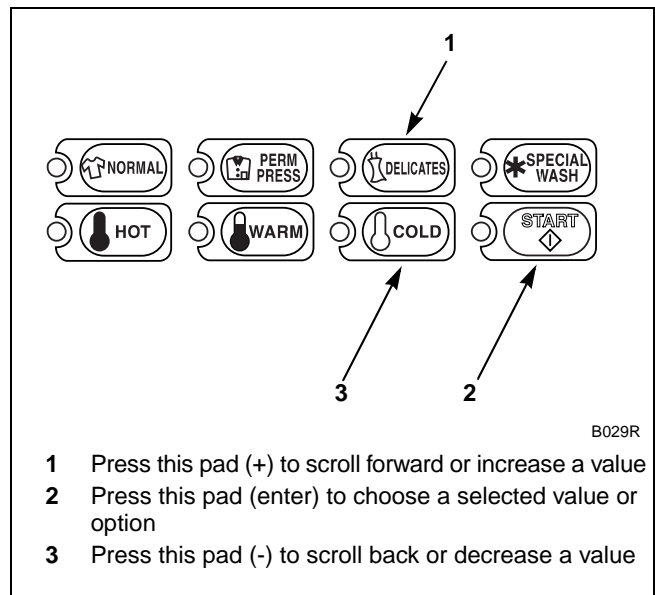
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 101

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+078", will appear in the VFD.

NOTE: To program "+078" (PreWash #1/PreWash #2/Rinses Water Temperature), refer to *option 78*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Programming NetMaster

Reading *Table 5*

To determine correct extract value required, review table below. Read each row from left to right. Starting number of row indicates required extract value number to be entered into electronic control.

Extract value number is followed by six option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
000	OFF	OFF	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF	OFF	OFF
003	**ON**	**ON**	OFF	OFF	OFF	OFF
004	OFF	OFF	**ON**	OFF	OFF	OFF
005	**ON**	OFF	**ON**	OFF	OFF	OFF
006	OFF	**ON**	**ON**	OFF	OFF	OFF
007	**ON**	**ON**	**ON**	OFF	OFF	OFF
008	OFF	OFF	OFF	**ON**	OFF	OFF
009	**ON**	OFF	OFF	**ON**	OFF	OFF
010	OFF	**ON**	OFF	**ON**	OFF	OFF
011	**ON**	**ON**	OFF	**ON**	OFF	OFF
012	OFF	OFF	**ON**	**ON**	OFF	OFF
013	**ON**	OFF	**ON**	**ON**	OFF	OFF
014	OFF	**ON**	**ON**	**ON**	OFF	OFF
015	**ON**	**ON**	**ON**	**ON**	OFF	OFF
016	OFF	OFF	OFF	OFF	**ON**	OFF
017	**ON**	OFF	OFF	OFF	**ON**	OFF
018	OFF	**ON**	OFF	OFF	**ON**	OFF
019	**ON**	**ON**	OFF	OFF	**ON**	OFF
020	OFF	OFF	**ON**	OFF	**ON**	OFF
021	**ON**	OFF	**ON**	OFF	**ON**	OFF
022	OFF	**ON**	**ON**	OFF	**ON**	OFF
023	**ON**	**ON**	**ON**	OFF	**ON**	OFF
024	OFF	OFF	OFF	**ON**	**ON**	OFF
025	**ON**	OFF	OFF	**ON**	**ON**	OFF
026	OFF	**ON**	OFF	**ON**	**ON**	OFF
027	**ON**	**ON**	OFF	**ON**	**ON**	OFF
028	OFF	OFF	**ON**	**ON**	**ON**	OFF
029	**ON**	OFF	**ON**	**ON**	**ON**	OFF
030	OFF	**ON**	**ON**	**ON**	**ON**	OFF
031	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
032	OFF	OFF	OFF	OFF	OFF	**ON**
033	**ON**	OFF	OFF	OFF	OFF	**ON**

Table 5 (Continued)

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Table 5 (Continued)

Extract Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
034	OFF	**ON**	OFF	OFF	OFF	**ON**
035	**ON**	**ON**	OFF	OFF	OFF	**ON**
036	OFF	OFF	**ON**	OFF	OFF	**ON**
037	**ON**	OFF	**ON**	OFF	OFF	**ON**
038	OFF	**ON**	**ON**	OFF	OFF	**ON**
039	**ON**	**ON**	**ON**	OFF	OFF	**ON**
040	OFF	OFF	OFF	**ON**	OFF	**ON**
041	**ON**	OFF	OFF	**ON**	OFF	**ON**
042	OFF	**ON**	OFF	**ON**	OFF	**ON**
043	**ON**	**ON**	OFF	**ON**	OFF	**ON**
044	OFF	OFF	**ON**	**ON**	OFF	**ON**
045	**ON**	OFF	**ON**	**ON**	OFF	**ON**
046	OFF	**ON**	**ON**	**ON**	OFF	**ON**
047	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
048	OFF	OFF	OFF	OFF	**ON**	**ON**
049	**ON**	OFF	OFF	OFF	**ON**	**ON**
050	OFF	**ON**	OFF	OFF	**ON**	**ON**
051	**ON**	**ON**	OFF	OFF	**ON**	**ON**
052	OFF	OFF	**ON**	OFF	**ON**	**ON**
053	**ON**	OFF	**ON**	OFF	**ON**	**ON**
054	OFF	**ON**	**ON**	OFF	**ON**	**ON**
055	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
056	OFF	OFF	OFF	**ON**	**ON**	**ON**
057	**ON**	OFF	OFF	**ON**	**ON**	**ON**
058	OFF	**ON**	OFF	**ON**	**ON**	**ON**
059	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
060	OFF	OFF	**ON**	**ON**	**ON**	**ON**
061	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
062	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
063	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**

78. PreWash #1/PreWash #2/Rinses Water Temperature "+078"

This option allows the owner to program warm or cold water temperature for PreWash #1, PreWash #2, Initial Rinse, Extra Rinse and Final Rinse.

How to Program PreWash #1/PreWash #2/Rinses Water Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
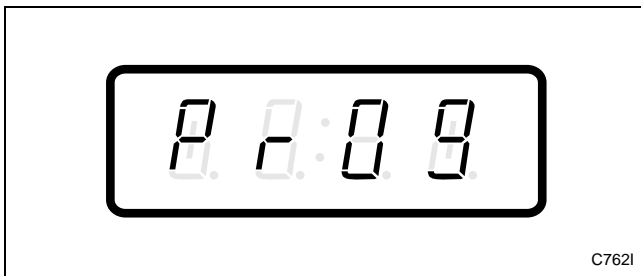

Figure 102

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+078" appears in the VFD. Refer to *Figure 103*.


Figure 103

4. When "+078" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current water temperature value for PreWash #1, PreWash #2, Initial Rinse, Extra Rinse and Final Rinse.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current value to the desired value selected from *Table 6* on the following page. Refer to *Figure 104*.

B029R

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 104

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+079", will appear in the VFD.

NOTE: To program "+079" (Fill/Tumbles Water Levels #1), refer to *option 79*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 6*

To determine correct temperature value required, review table below. Read each row from left to right. Starting number of row indicates required temperature value number to be entered into electronic control.

Temperature value number is followed by five option columns. Option columns state whether an action is HOT, WARM or COLD.

Temperature Value	Final Rinse	Extra Rinse	Initial Rinse	PreWash #2	PreWash #1
000	COLD	COLD	COLD	WARM	COLD
001	COLD	COLD	COLD	WARM	WARM
002	COLD	COLD	COLD	HOT	COLD
003	COLD	COLD	COLD	HOT	WARM
008	COLD	COLD	WARM	WARM	COLD
009	COLD	COLD	WARM	WARM	WARM
010	COLD	COLD	WARM	HOT	COLD
011	COLD	COLD	WARM	HOT	WARM
016	COLD	WARM	COLD	WARM	COLD
017	COLD	WARM	COLD	WARM	WARM
018	COLD	WARM	COLD	HOT	COLD
019	COLD	WARM	COLD	HOT	WARM
024	COLD	WARM	WARM	WARM	COLD
025	COLD	WARM	WARM	WARM	WARM
026	COLD	WARM	WARM	HOT	COLD
027	COLD	COLD	WARM	HOT	WARM
032	WARM	COLD	COLD	WARM	COLD
033	WARM	COLD	COLD	WARM	WARM
034	WARM	COLD	COLD	HOT	COLD
035	WARM	COLD	COLD	HOT	WARM
040	WARM	COLD	WARM	WARM	COLD
041	WARM	COLD	WARM	WARM	WARM
042	WARM	COLD	WARM	HOT	COLD
043	WARM	COLD	WARM	HOT	WARM
048	WARM	WARM	COLD	WARM	COLD
049	WARM	WARM	COLD	WARM	WARM
050	WARM	WARM	COLD	HOT	COLD
051	WARM	WARM	COLD	HOT	WARM
056	WARM	WARM	WARM	WARM	COLD
057	WARM	WARM	WARM	WARM	WARM
058	WARM	WARM	WARM	HOT	COLD
059	WARM	WARM	WARM	HOT	WARM

Table 6

79. Fill/Tumbles Water Levels #1 "+079"

This option allows the owner to program the water level for PreWash #1, PreWash #2 and Wash during fill and tumble of all cycles.

How to Program Fill/Tumbles Water Levels #1

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
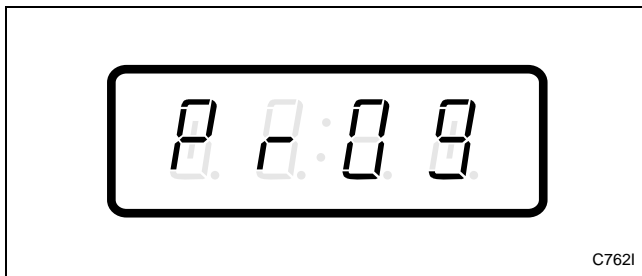

Figure 105

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+079" appears in the VFD. Refer to *Figure 106*.

Figure 106

4. When "+079" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current PreWash #1, PreWash #2 and Wash water levels during tumble and fill of all cycles.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current water level value to the desired water level value selected from *Table 7* on the following page. Refer to *Figure 107*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 107

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+080", will appear in the VFD.

NOTE: To program "+080" (Fill/Tumbles Water Levels #2), refer to *option 80*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 7*

To determine correct water level value required, review table below. Read each row from left to right. Starting number of row indicates required water level value number to be entered into electronic control.

Water level value number is followed by three option columns. Option columns state whether an action is LOW, MEDIUM or HIGH.

Water Level Value	PreWash #1	PreWash #2	Wash
000	LOW	LOW	LOW
001	MED	LOW	LOW
002	HIGH	LOW	LOW
004	LOW	MED	LOW
005	MED	MED	LOW
006	HIGH	MED	LOW
008	LOW	HIGH	LOW
009	MED	HIGH	LOW
010	HIGH	HIGH	LOW
016	LOW	LOW	MED
017	MED	LOW	MED
018	HIGH	LOW	MED
020	LOW	MED	MED
021	MED	MED	MED
022	HIGH	MED	MED
024	LOW	HIGH	MED
025	MED	HIGH	MED
026	HIGH	HIGH	MED
032	LOW	LOW	HIGH
033	MED	LOW	HIGH
034	HIGH	LOW	HIGH
036	LOW	MED	HIGH
037	MED	MED	HIGH
038	HIGH	MED	HIGH
040	LOW	HIGH	HIGH
041	MED	HIGH	HIGH
042	HIGH	HIGH	HIGH

Table 7

80. Fill/Tumbles Water Levels #2 "+080"

This option allows the owner to program the water levels for Initial, Extra and Final Rinses during fill and tumble of all cycles.

How to Program Fill/Tumbles Water Levels #2

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
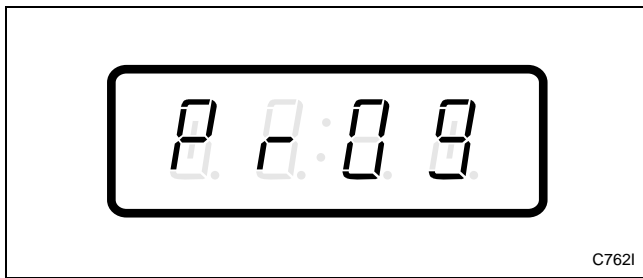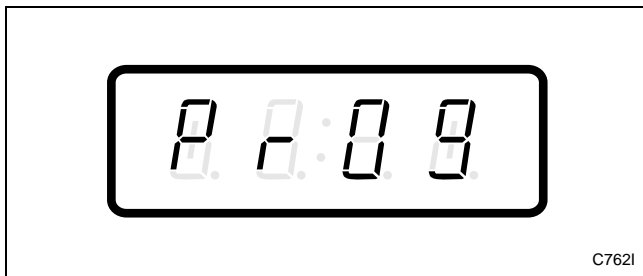

Figure 108

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+080" appears in the VFD. Refer to *Figure 109*.
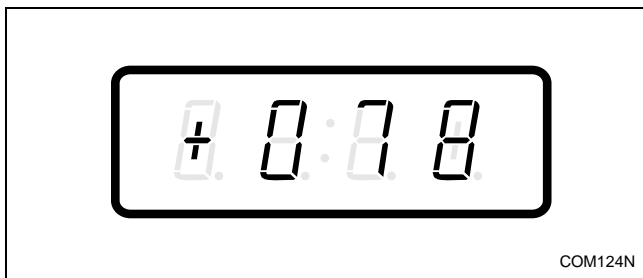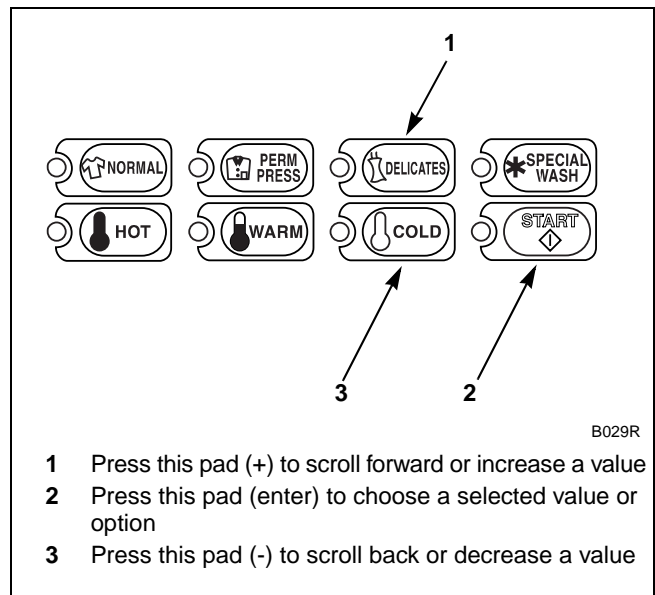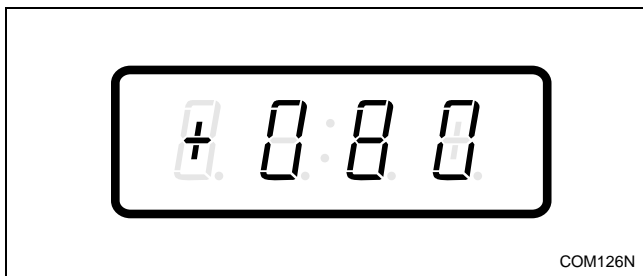

Figure 109

4. When "+080" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Initial, Extra and Final Rinse water levels during tumble and fill of all cycles.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current water level value to the desired water level value selected from *Table 8* on the following page. Refer to *Figure 110*.
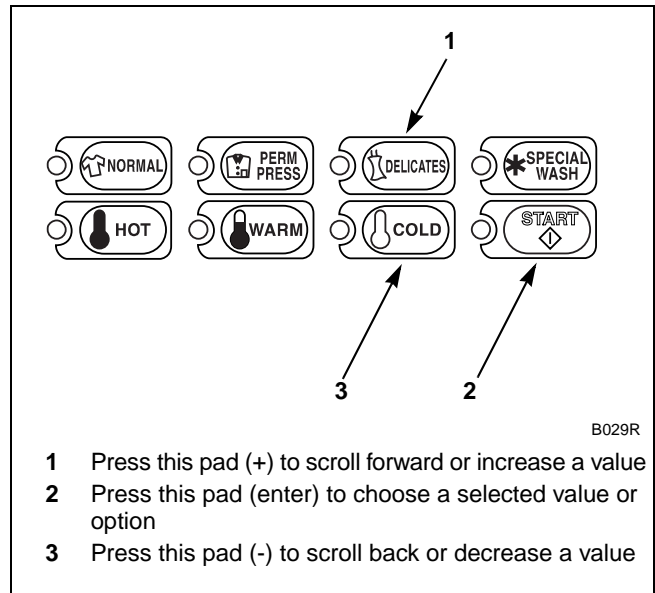
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 110

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+081", will appear in the VFD.

NOTE: To program "+081" (Configuration Data #1), refer to *option 81* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 8*

To determine correct water level value required, review table below. Read each row from left to right. Starting number of row indicates required water level value number to be entered into electronic control.

Water level value number is followed by three option columns. Option columns state whether an action is LOW, MEDIUM or HIGH.

Water Level Value	Initial Rinse	Extra Rinse	Final Rinse
000	LOW	LOW	LOW
001	MED	LOW	LOW
002	HIGH	LOW	LOW
004	LOW	MED	LOW
005	MED	MED	LOW
006	HIGH	MED	LOW
008	LOW	HIGH	LOW
009	MED	HIGH	LOW
010	HIGH	HIGH	LOW
016	LOW	LOW	MED
017	MED	LOW	MED
018	HIGH	LOW	MED
020	LOW	MED	MED
021	MED	MED	MED
022	HIGH	MED	MED
024	LOW	HIGH	MED
025	MED	HIGH	MED
026	HIGH	HIGH	MED
032	LOW	LOW	HIGH
033	MED	LOW	HIGH
034	HIGH	LOW	HIGH
036	LOW	MED	HIGH
037	MED	MED	HIGH
038	HIGH	MED	HIGH
040	LOW	HIGH	HIGH
041	MED	HIGH	HIGH
042	HIGH	HIGH	HIGH

Table 8

82. Control Configuration Data #2 "+082"

This option allows the owner to turn "ON" or turn "OFF" preprogrammed capabilities within NetMaster.

How to Program the Control Configuration Data #2

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
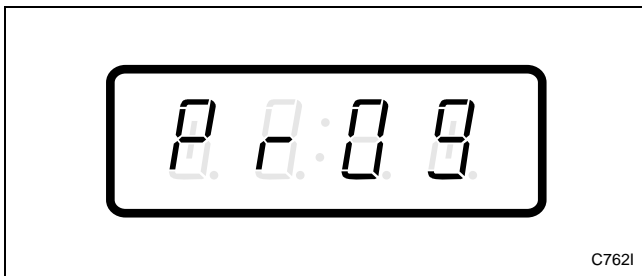

Figure 111

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+082" appears in the VFD. Refer to *Figure 112*.
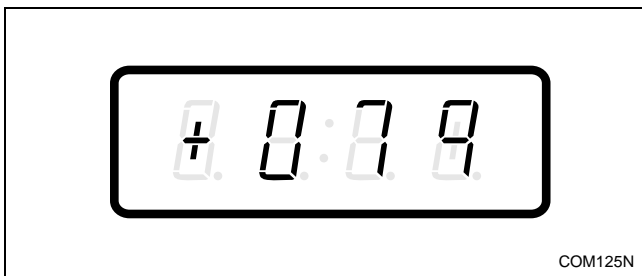

Figure 112

4. When "+082" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Control Configuration Data #2 Value.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number to the desired number selected from *Table 9*. Refer to *Figure 113*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value
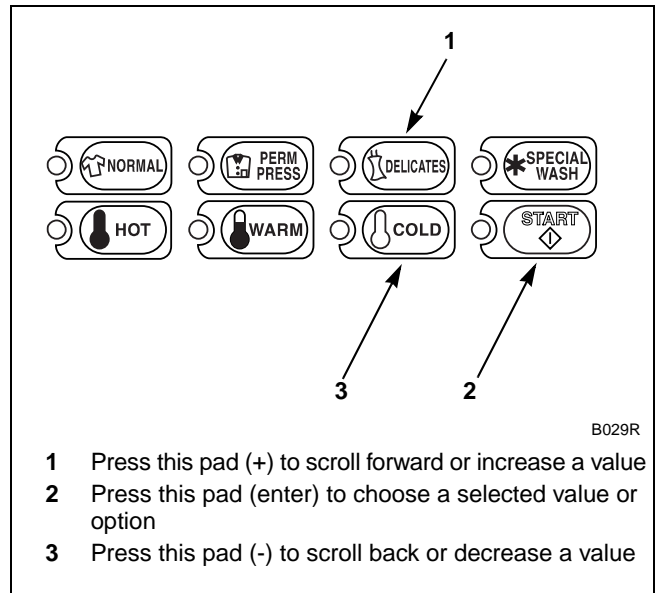
Figure 113

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+083", will appear in the VFD.

NOTE: To program "+083" (Control Configuration Data #3), refer to *option 83*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Programming NetMaster

NOTE: Fahrenheit or Celsius, Hot Water, Warm Water, and Cold Water Temperature Regulation are for heater equipped models only.

Data Values	Bleach Cycle	Hot Water Temperature Regulation	Warm Water Temperature Regulation	Cold Water Temperature Regulation	Fahrenheit or Celsius	Add Bleach Display
000	WASH	OFF	OFF	OFF	F	OFF
001	WASH	OFF	OFF	OFF	F	**ON**
002	WASH	OFF	OFF	OFF	C	OFF
003	WASH	OFF	OFF	OFF	C	**ON**
004	WASH	**ON**	OFF	OFF	F	OFF
005	WASH	**ON**	OFF	OFF	F	**ON**
006	WASH	**ON**	OFF	OFF	C	OFF
007	WASH	**ON**	OFF	OFF	C	**ON**
008	WASH	OFF	**ON**	OFF	F	OFF
009	WASH	OFF	**ON**	OFF	F	**ON**
010	WASH	OFF	**ON**	OFF	C	OFF
011	WASH	OFF	**ON**	OFF	C	**ON**
012	WASH	**ON**	**ON**	OFF	F	OFF
013	WASH	**ON**	**ON**	OFF	F	**ON**
014	WASH	**ON**	**ON**	OFF	C	OFF
015	WASH	**ON**	**ON**	OFF	C	**ON**
016	WASH	OFF	OFF	**ON**	F	OFF
017	WASH	OFF	OFF	**ON**	F	**ON**
018	WASH	OFF	OFF	**ON**	C	OFF
019	WASH	OFF	OFF	**ON**	C	**ON**
020	WASH	**ON**	OFF	**ON**	F	OFF
021	WASH	**ON**	OFF	**ON**	F	**ON**
022	WASH	**ON**	OFF	**ON**	C	OFF
023	WASH	**ON**	OFF	**ON**	C	**ON**
024	WASH	OFF	**ON**	**ON**	F	OFF
025	WASH	OFF	**ON**	**ON**	F	**ON**
026	WASH	OFF	**ON**	**ON**	C	OFF
027	WASH	OFF	**ON**	**ON**	C	**ON**
028	WASH	**ON**	**ON**	**ON**	F	OFF
029	WASH	**ON**	**ON**	**ON**	F	**ON**
030	WASH	**ON**	**ON**	**ON**	C	OFF
031	WASH	**ON**	**ON**	**ON**	C	**ON**
064	RINSE	OFF	OFF	OFF	F	OFF
065	RINSE	OFF	OFF	OFF	F	**ON**
066	RINSE	OFF	OFF	OFF	C	OFF

Table 9 (Continued)

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Table 9 (Continued)

Data Values	Bleach Cycle	Hot Water Temperature Regulation	Warm Water Temperature Regulation	Cold Water Temperature Regulation	Fahrenheit or Celsius	Add Bleach Display
067	RINSE	OFF	OFF	OFF	C	**ON**
068	RINSE	**ON**	OFF	OFF	F	OFF
069	RINSE	**ON**	OFF	OFF	F	**ON**
070	RINSE	**ON**	OFF	OFF	C	OFF
071	RINSE	**ON**	OFF	OFF	C	**ON**
072	RINSE	OFF	**ON**	OFF	F	OFF
073	RINSE	OFF	**ON**	OFF	F	**ON**
074	RINSE	OFF	**ON**	OFF	C	OFF
075	RINSE	OFF	**ON**	OFF	C	**ON**
076	RINSE	**ON**	**ON**	OFF	F	OFF
077	RINSE	**ON**	**ON**	OFF	F	**ON**
078	RINSE	**ON**	**ON**	OFF	C	OFF
079	RINSE	**ON**	**ON**	OFF	C	**ON**
080	RINSE	OFF	OFF	**ON**	F	OFF
081	RINSE	OFF	OFF	**ON**	F	**ON**
082	RINSE	OFF	OFF	**ON**	C	OFF
083	RINSE	OFF	OFF	**ON**	C	**ON**
084	RINSE	**ON**	OFF	**ON**	F	OFF
085	RINSE	**ON**	OFF	**ON**	F	**ON**
086	RINSE	**ON**	OFF	**ON**	C	OFF
087	RINSE	**ON**	OFF	**ON**	C	**ON**
088	RINSE	OFF	**ON**	**ON**	F	OFF
089	RINSE	OFF	**ON**	**ON**	F	**ON**
090	RINSE	OFF	**ON**	**ON**	C	OFF
091	RINSE	OFF	**ON**	**ON**	C	**ON**
092	RINSE	**ON**	**ON**	**ON**	F	OFF
093	RINSE	**ON**	**ON**	**ON**	F	**ON**
094	RINSE	**ON**	**ON**	**ON**	C	OFF
095	RINSE	**ON**	**ON**	**ON**	C	**ON**
096	RINSE	OFF	OFF	OFF	F	OFF

83. Control Configuration Data #3 "+083"

This option allows the owner to turn "ON" or turn "OFF" preprogrammed capabilities within NetMaster.

How to Program the Control Configuration Data #3

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
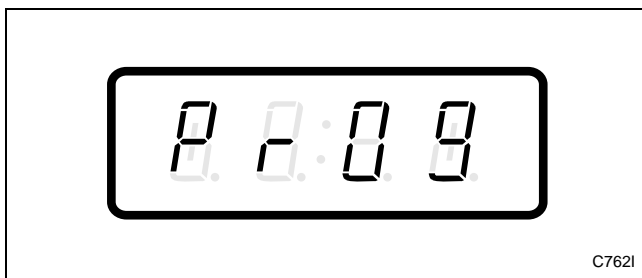

Figure 114

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+083" appears in the VFD. Refer to *Figure 115*.
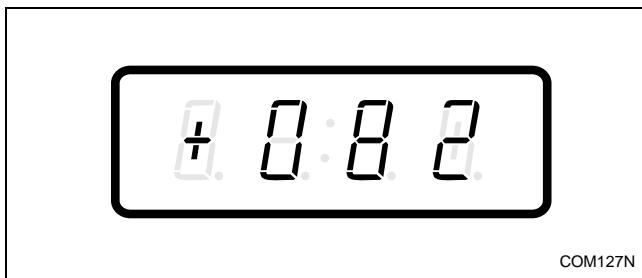

Figure 115

4. When "+083" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Control Configuration Data #3 Value.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number to the desired number selected from *Table 10*. Refer to *Figure 116*.
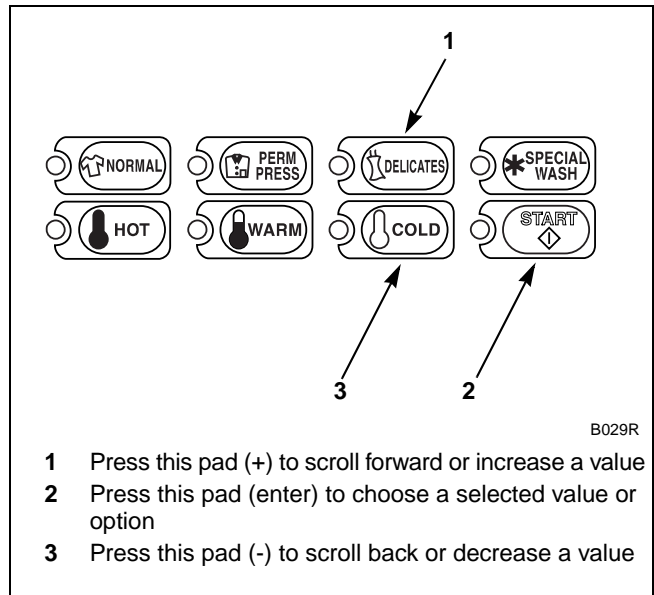

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 116

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+084", will appear in the VFD.

NOTE: To program "+084" (Hot Water Temperature), refer to *option 84*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 10*

Use the table below (*Table 10*) to turn "ON" or turn "OFF" access for Manual Rapid Advance and Diagnostics, Cool Down, and to change the Available Output Mode.

NOTE: Cool Down is for specially equipped models only.

Config. #3 Value	Cool Down	RADV/DIAG Access	Available
0	Disabled	OFF	Ready Mode
1	Disabled	OFF	Until Start Mode
2	Disabled	**ON**	Ready Mode
3	Disabled	**ON**	Until Start Mode
4	Enabled	OFF	Ready Mode
5	Enabled	OFF	Until Start Mode
6	Enabled	**ON**	Ready Mode
7	Enabled	**ON**	Until Start Mode

Table 10

84. Hot Water Temperature "+084"

This option allows the owner to program the hot water temperature for models equipped with temperature sensing capabilities.

How to Program Hot Water Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 117

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+084" appears in the VFD. Refer to *Figure 118*.

Figure 118

4. When "+084" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Hot Water Temperature value.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current Hot Water Temperature value to the desired Hot Water Temperature value selected from *Table 11* on the following page. Refer to *Figure 119*.

NOTE: Hot Water Temperature is selectable between 60° and 190° Fahrenheit (16° and 87° Celsius). Default temperature value is 17 (120°F).

NOTE: Refer to *option 82* to select Celsius or Fahrenheit display.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 119

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+085", will appear in the VFD.

NOTE: To program "+085" (Warm Water Temperature), refer to *option 85*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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Reading *Table 11*

To determine correct temperature value required, review table below. Read each row from left to right.

Starting number of row indicates required temperature value number to be entered into electronic control.

Temperature value is followed by two option columns. Option columns state the temperature of the water.

Temperature Value	Fahrenheit (°F)	Celsius (°C)
5	60	16
6	65	19
7	70	22
8	75	24
9	80	27
10	85	30
11	90	33
12	95	35
13	100	38
14	105	41
15	110	44
16	115	46
17	120	49
18	125	52
19	130	54
20	135	57
21	140	60
22	145	63
23	150	65
24	155	68
25	160	71
26	165	73
27	170	76
28	175	79
29	180	82
30	185	84
31	190	87

Table 11

85. Warm Water Temperature "+085"

This option allows the owner to program the warm water temperature for models equipped with temperature sensing capabilities.

How to Program Warm Water Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
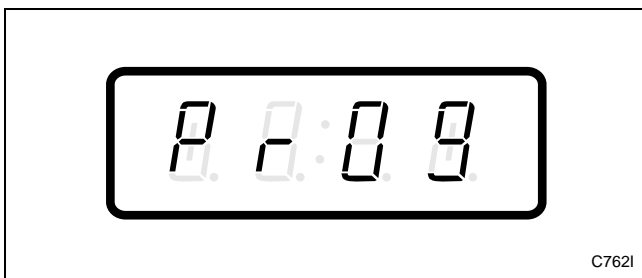

Figure 120

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+085" appears in the VFD. Refer to *Figure 121*.
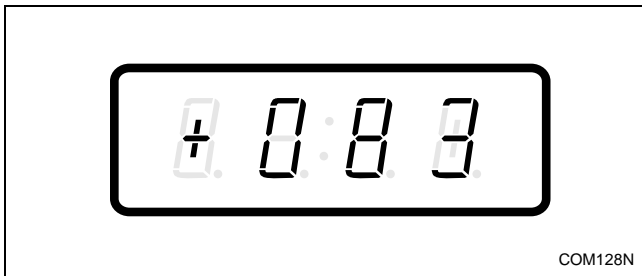

Figure 121

4. When "+085" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Warm Water Temperature value.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current Warm Water Temperature value to the desired Warm Water Temperature value selected from *Table 12* on the following page. Refer to *Figure 122*.

NOTE: Warm Water Temperature is selectable between 60° and 190° Fahrenheit (16° and 87° Celsius). Default temperature value is 13 (100°F).

NOTE: Refer to *option 82* to select Celsius or Fahrenheit display.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
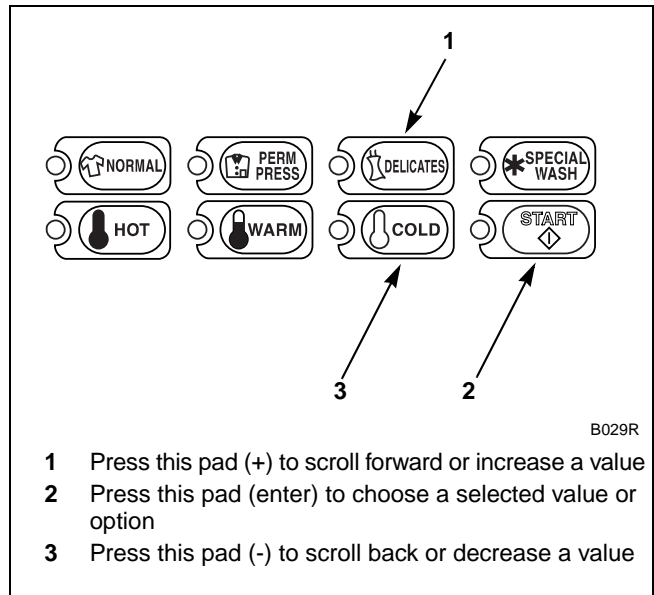**3** Press this pad (-) to scroll back or decrease a value

Figure 122

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+086", will appear in the VFD.

NOTE: To program "+086" (Cold Water Temperature), refer to *option 86*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 12*

To determine correct temperature value required, review table below. Read each row from left to right.

Starting number of row indicates required temperature value number to be entered into electronic control.

Temperature value is followed by two option columns. Option columns state the temperature of the water.

Temperature Value	Fahrenheit (°F)	Celsius (°C)
5	60	16
6	65	19
7	70	22
8	75	24
9	80	27
10	85	30
11	90	33
12	95	35
13	100	38
14	105	41
15	110	44
16	115	46
17	120	49
18	125	52
19	130	54
20	135	57
21	140	60
22	145	63
23	150	65
24	155	68
25	160	71
26	165	73
27	170	76
28	175	79
29	180	82
30	185	84
31	190	87

Table 12

86. Cold Water Temperature "+086"

This option allows the owner to program the cold water temperature for models equipped with temperature sensing capabilities.

How to Program Cold Water Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
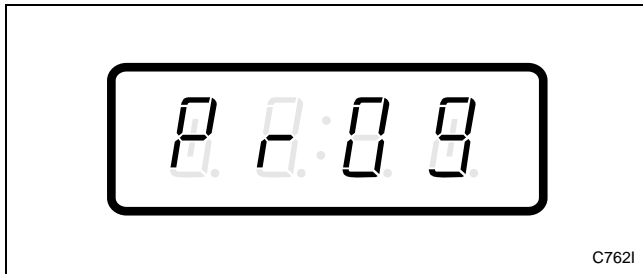

Figure 123

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+086" appears in the VFD. Refer to *Figure 124*.
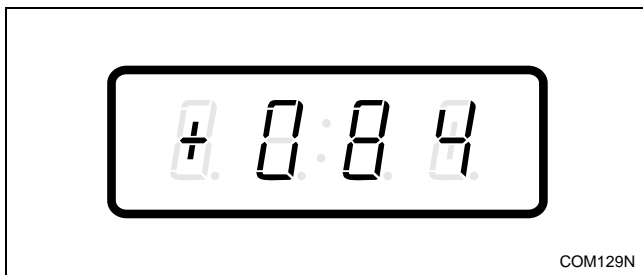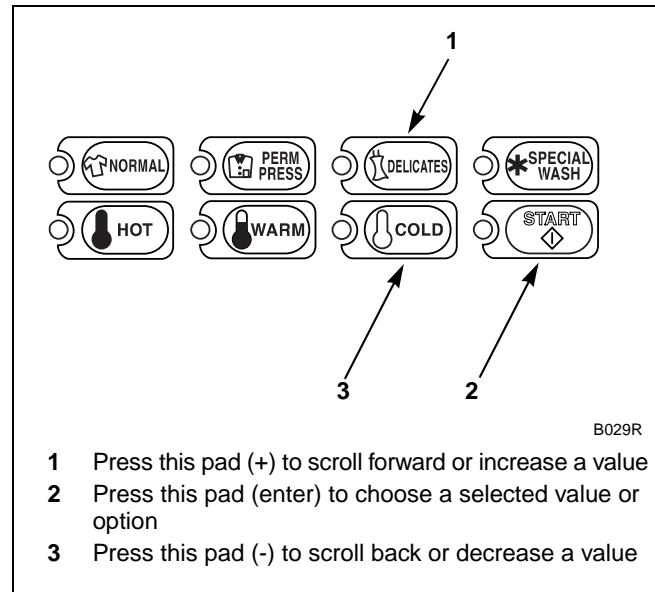

Figure 124

4. When "+086" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Cold Water Temperature value.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current Cold Water Temperature value to the desired Cold Water Temperature value selected from *Table 13* on the following page. Refer to *Figure 125*.

NOTE: Cold Water Temperature is selectable between 60° and 190° Fahrenheit (16° and 87° Celsius). Default temperature value is 7 (70°F).

NOTE: Refer to *option 82* to select Celsius or Fahrenheit display.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 125

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+087", will appear in the VFD.

NOTE: To program "+087" (PreWash #1 Fill/ Tumble Dispenser), refer to *option 87*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 13*

To determine correct temperature value required, review table below. Read each row from left to right.

Starting number of row indicates required temperature value number to be entered into electronic control.

Temperature value is followed by two option columns. Option columns state the temperature of the water.

Temperature Value	Fahrenheit (°F)	Celsius (°C)
5	60	16
6	65	19
7	70	22
8	75	24
9	80	27
10	85	30
11	90	33
12	95	35
13	100	38
14	105	41
15	110	44
16	115	46
17	120	49
18	125	52
19	130	54
20	135	57
21	140	60
22	145	63
23	150	65
24	155	68
25	160	71
26	165	73
27	170	76
28	175	79
29	180	82
30	185	84
31	190	87

Table 13

87. PreWash #1 Fill/Tumble Dispenser "+087"

This option allows the owner to select which dispenser will be used for PreWash #1 on all cycles.

How to Program PreWash #1 Fill/Tumble Dispenser

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
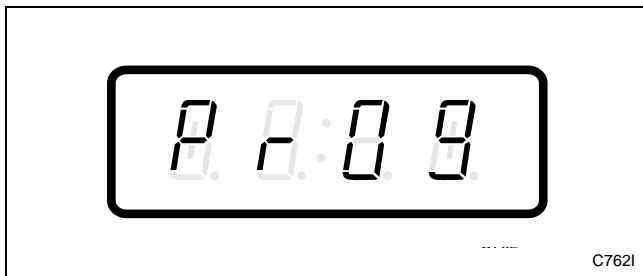

Figure 126

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+087" appears in the VFD. Refer to *Figure 127*.
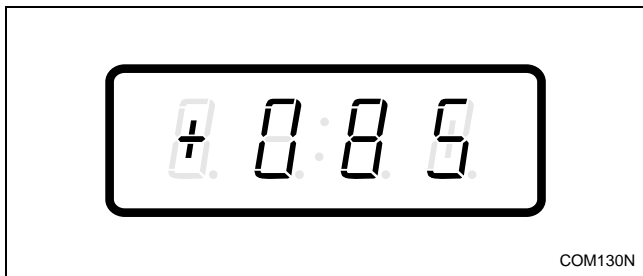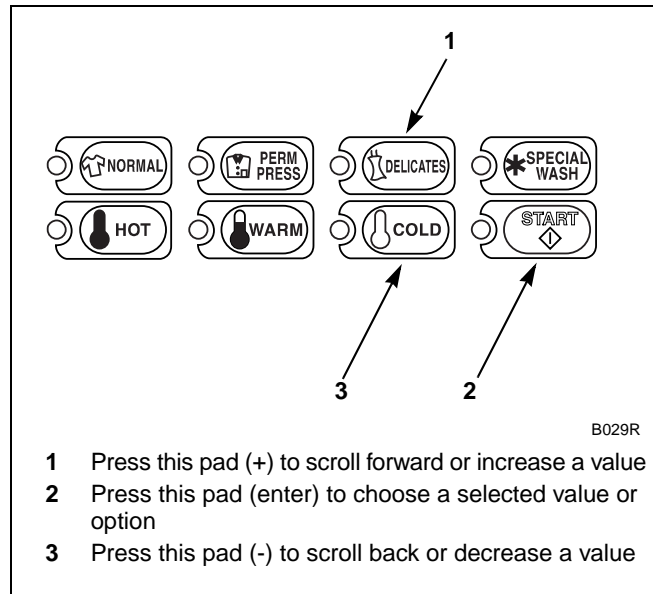

Figure 127

4. When "+087" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current PreWash #1 Fill/Tumble Dispenser Programming Value.

NOTE: The number appearing in the VFD is the current number that was selected from *Table 14* on the following page.

5. Locate the desired number in the first column of *Table 14* on the following page.

NOTE: Default PreWash #1 Fill/Tumble Dispenser value is 001.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 128*.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 128

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+088", will appear in the VFD.

NOTE: To program "+088" (PreWash #2 Fill/Tumble Dispenser), refer to *option 88*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 14*

To determine correct dispenser value required, review table below. Read each row from left to right. Starting number of row indicates required dispenser value number to be entered into electronic control.

Dispenser value is followed by four option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Dispenser Value	Dispenser One	Dispenser Two	Dispenser Three	Dispenser Four
000	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF
003	**ON**	**ON**	OFF	OFF
004	OFF	OFF	**ON**	OFF
005	**ON**	OFF	**ON**	OFF
006	OFF	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**	OFF
008	OFF	OFF	OFF	**ON**
009	**ON**	OFF	OFF	**ON**
010	OFF	**ON**	OFF	**ON**
011	**ON**	**ON**	OFF	**ON**
012	OFF	OFF	**ON**	**ON**
013	**ON**	OFF	**ON**	**ON**
014	OFF	**ON**	**ON**	**ON**
015	**ON**	**ON**	**ON**	**ON**

Table 14

88. PreWash #2 Fill/Tumble Dispenser "+088"

This option allows the owner to select which dispenser will be used for PreWash #2 on all cycles.

How to Program PreWash #2 Fill/Tumble Dispenser

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
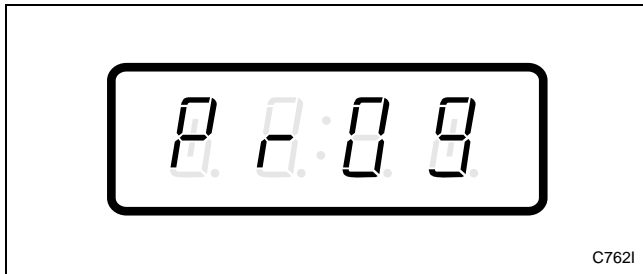

Figure 129

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+088" appears in the VFD. Refer to *Figure 130*.
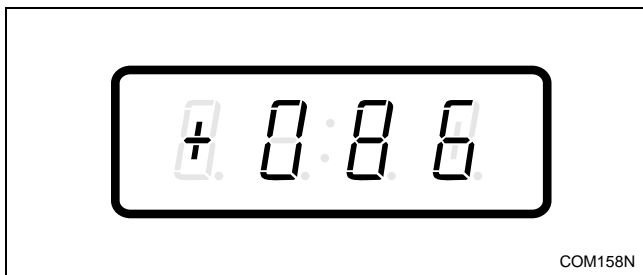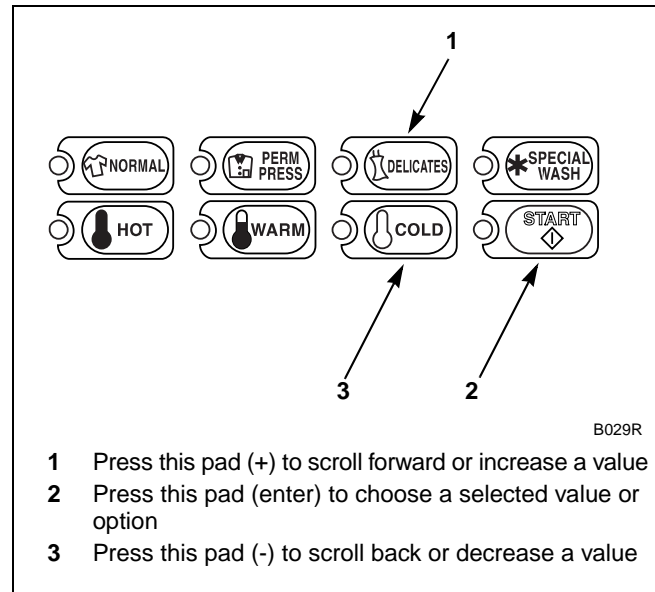

Figure 130

4. When "+088" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current PreWash #2 Fill/Tumble Dispenser Programming Value.

NOTE: The number appearing in the VFD is the current number that was selected from *Table 15* on the following page.

5. Locate the desired number in the first column of *Table 15* on the following page.

NOTE: Default PreWash #2 Fill/Tumble Dispenser value is 001.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 131*.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 131

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+089", will appear in the VFD.

NOTE: To program "+089" (Wash Fill/Tumble Dispenser), refer to *option 89*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Reading *Table 15*

To determine correct dispenser value required, review table below. Read each row from left to right. Starting number of row indicates required dispenser value number to be entered into electronic control.

Dispenser value is followed by four option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Dispenser Value	Dispenser One	Dispenser Two	Dispenser Three	Dispenser Four
000	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF
003	**ON**	**ON**	OFF	OFF
004	OFF	OFF	**ON**	OFF
005	**ON**	OFF	**ON**	OFF
006	OFF	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**	OFF
008	OFF	OFF	OFF	**ON**
009	**ON**	OFF	OFF	**ON**
010	OFF	**ON**	OFF	**ON**
011	**ON**	**ON**	OFF	**ON**
012	OFF	OFF	**ON**	**ON**
013	**ON**	OFF	**ON**	**ON**
014	OFF	**ON**	**ON**	**ON**
015	**ON**	**ON**	**ON**	**ON**

Table 15

89. Wash Fill/Tumble Dispenser "+089"

This option allows the owner to select which dispenser will be used for Wash on all cycles.

How to Program Wash Fill/Tumble Dispenser

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
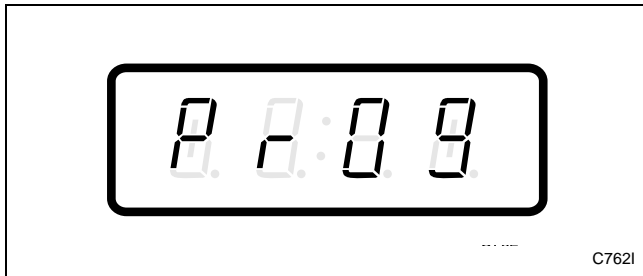

Figure 132

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+089" appears in the VFD. Refer to *Figure 133*.
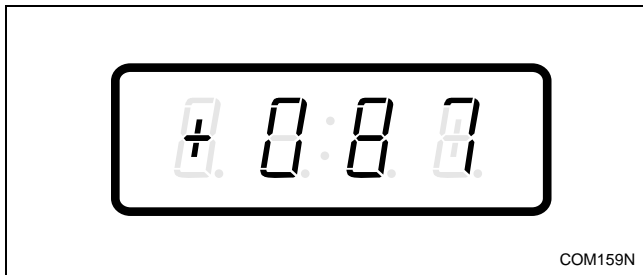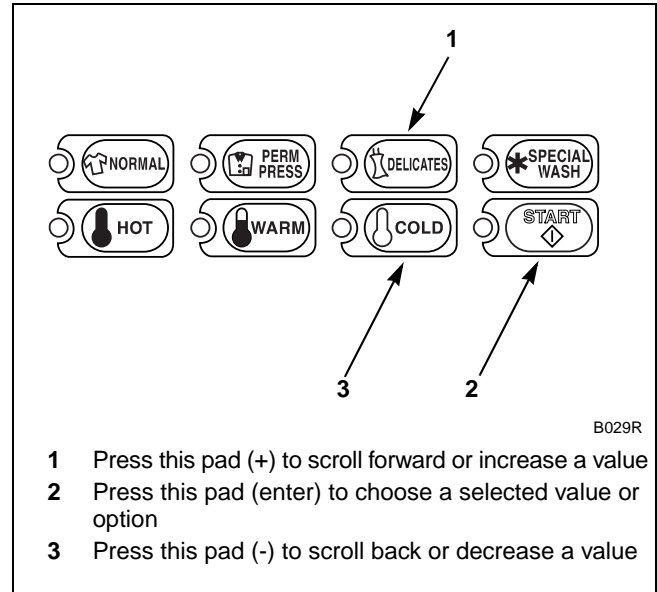

Figure 133

4. When "+089" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Wash Fill/Tumble Dispenser Programming Value.

NOTE: The number appearing in the VFD is the current number that was selected from *Table 16* on the following page.

5. Locate the desired number in the first column of *Table 16* on the following page.

NOTE: Default Wash Fill/Tumble Dispenser value is 003.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 134*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 134

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+090", will appear in the VFD.

NOTE: To program "+090" (Rinse #1 Fill/Tumble Dispenser), refer to *option 90*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 16*

To determine correct dispenser value required, review table below. Read each row from left to right. Starting number of row indicates required dispenser value number to be entered into electronic control.

Dispenser value is followed by four option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Dispenser Value	Dispenser One	Dispenser Two	Dispenser Three	Dispenser Four
000	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF
003	**ON**	**ON**	OFF	OFF
004	OFF	OFF	**ON**	OFF
005	**ON**	OFF	**ON**	OFF
006	OFF	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**	OFF
008	OFF	OFF	OFF	**ON**
009	**ON**	OFF	OFF	**ON**
010	OFF	**ON**	OFF	**ON**
011	**ON**	**ON**	OFF	**ON**
012	OFF	OFF	**ON**	**ON**
013	**ON**	OFF	**ON**	**ON**
014	OFF	**ON**	**ON**	**ON**
015	**ON**	**ON**	**ON**	**ON**

Table 16

90. Rinse #1 Fill/Tumble Dispenser "+090"

This option allows the owner to select which dispenser will be used for the Initial Rinse on all cycles.

How to Program Rinse #1 Fill/Tumble Dispenser

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
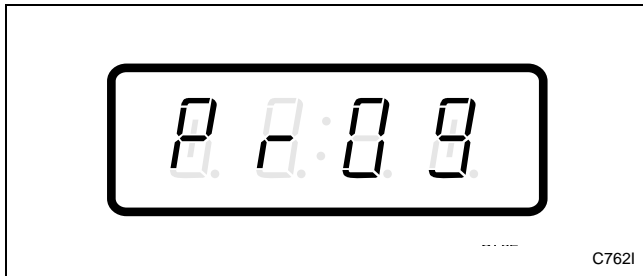

Figure 135

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+090" appears in the VFD. Refer to *Figure 136*.
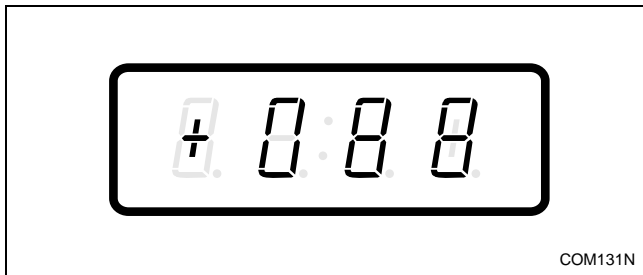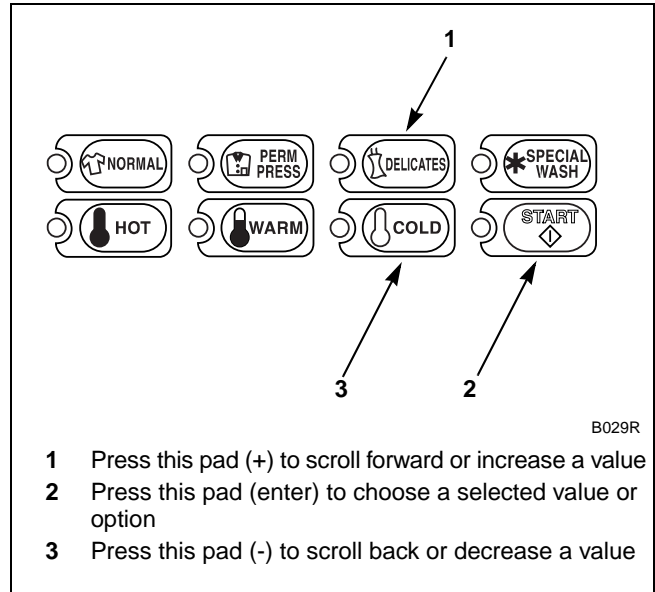

Figure 136

4. When "+090" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Rinse #1 Fill/Tumble Dispenser Programming Value.

NOTE: The number appearing in the VFD is the current number that was selected from *Table 17* on the following page.

5. Locate the desired number in the first column of *Table 17* on the following page.

NOTE: Default Rinse #1 Fill/Tumble Dispenser value is 003.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 137*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 137

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+091", will appear in the VFD.

NOTE: To program "+091" (Rinse Extra Fill/ Tumble Dispenser), refer to *option 91*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 17*

To determine correct dispenser value required, review table below. Read each row from left to right. Starting number of row indicates required dispenser value number to be entered into electronic control.

Dispenser value is followed by four option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Dispenser Value	Dispenser One	Dispenser Two	Dispenser Three	Dispenser Four
000	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF
003	**ON**	**ON**	OFF	OFF
004	OFF	OFF	**ON**	OFF
005	**ON**	OFF	**ON**	OFF
006	OFF	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**	OFF
008	OFF	OFF	OFF	**ON**
009	**ON**	OFF	OFF	**ON**
010	OFF	**ON**	OFF	**ON**
011	**ON**	**ON**	OFF	**ON**
012	OFF	OFF	**ON**	**ON**
013	**ON**	OFF	**ON**	**ON**
014	OFF	**ON**	**ON**	**ON**
015	**ON**	**ON**	**ON**	**ON**

Table 17

91. Rinse Extra Fill/Tumble Dispenser "+091"

This option allows the owner to select which dispenser will be used for Extra Rinse on all cycles.

How to Program Rinse Extra Fill/Tumble Dispenser

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
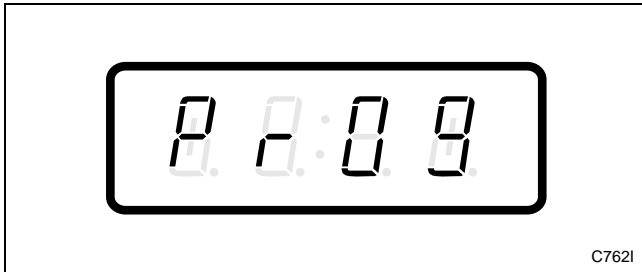

Figure 138

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+091" appears in the VFD. Refer to *Figure 139*.
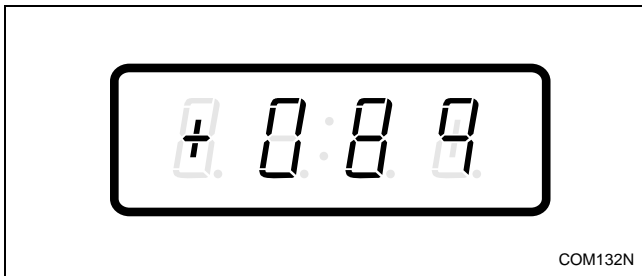

Figure 139

4. When "+091" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Rinse Extra Fill/Tumble Dispenser Programming Value.

NOTE: The number appearing in the VFD is the current number that was selected from *Table 18* on the following page.

5. Locate the desired number in the first column of *Table 18* on the following page.

NOTE: Default Rinse Extra Fill/Tumble Dispenser value is 003.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 140*.
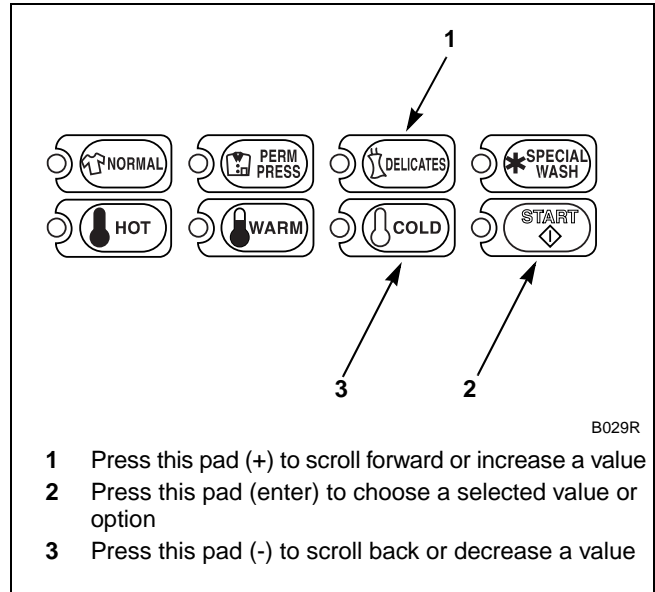

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 140

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+092", will appear in the VFD.

NOTE: To program "+092" (Rinse Final Fill/ Tumble Dispenser), refer to *option 92*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 18*

To determine correct dispenser value required, review table below. Read each row from left to right. Starting number of row indicates required dispenser value number to be entered into electronic control.

Dispenser value is followed by four option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Dispenser Value	Dispenser One	Dispenser Two	Dispenser Three	Dispenser Four
000	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF
003	**ON**	**ON**	OFF	OFF
004	OFF	OFF	**ON**	OFF
005	**ON**	OFF	**ON**	OFF
006	OFF	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**	OFF
008	OFF	OFF	OFF	**ON**
009	**ON**	OFF	OFF	**ON**
010	OFF	**ON**	OFF	**ON**
011	**ON**	**ON**	OFF	**ON**
012	OFF	OFF	**ON**	**ON**
013	**ON**	OFF	**ON**	**ON**
014	OFF	**ON**	**ON**	**ON**
015	**ON**	**ON**	**ON**	**ON**

Table 18

92. Rinse Final Fill/Tumble Dispenser "+092"

This option allows the owner to select which dispenser will be used for Final Rinse on all cycles.

How to Program Rinse Final Fill/Tumble Dispenser

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
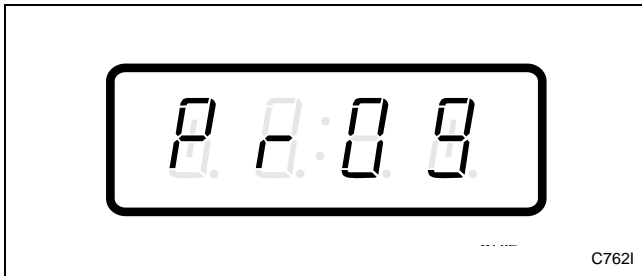

Figure 141

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+092" appears in the VFD. Refer to *Figure 142*.
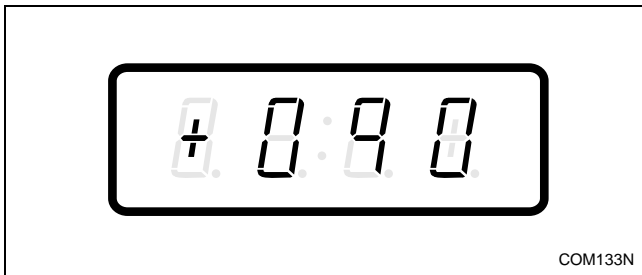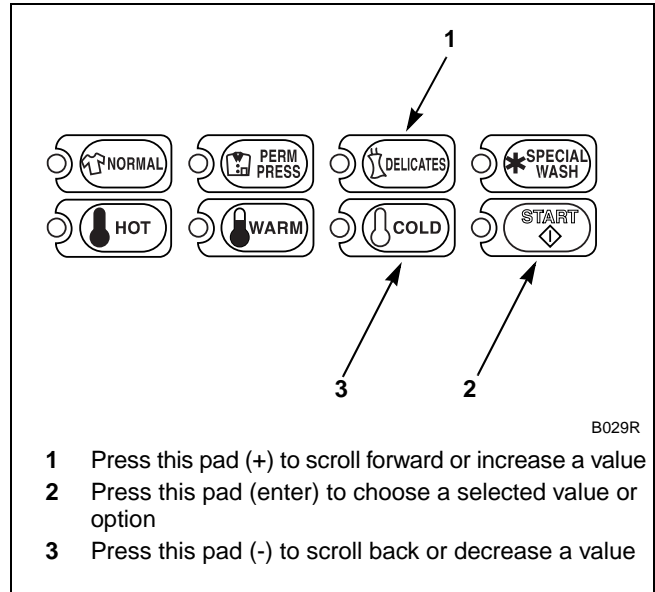

Figure 142

4. When "+092" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Rinse Final Fill/Tumble Dispenser Programming Value.

NOTE: The number appearing in the VFD is the current number that was selected from *Table 19* on the following page.

5. Locate the desired number in the first column of *Table 19* on the following page.

NOTE: Default Rinse Final Fill/Tumble Dispenser value is 006.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 143*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 143

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+093", will appear in the VFD.

NOTE: To program "+093" (PreWash #1 Fill/Tumble Drain), refer to *option 93*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 19*

To determine correct dispenser value required, review table below. Read each row from left to right. Starting number of row indicates required dispenser value number to be entered into electronic control.

Dispenser value is followed by four option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Dispenser Value	Dispenser One	Dispenser Two	Dispenser Three	Dispenser Four
000	OFF	OFF	OFF	OFF
001	**ON**	OFF	OFF	OFF
002	OFF	**ON**	OFF	OFF
003	**ON**	**ON**	OFF	OFF
004	OFF	OFF	**ON**	OFF
005	**ON**	OFF	**ON**	OFF
006	OFF	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**	OFF
008	OFF	OFF	OFF	**ON**
009	**ON**	OFF	OFF	**ON**
010	OFF	**ON**	OFF	**ON**
011	**ON**	**ON**	OFF	**ON**
012	OFF	OFF	**ON**	**ON**
013	**ON**	OFF	**ON**	**ON**
014	OFF	**ON**	**ON**	**ON**
015	**ON**	**ON**	**ON**	**ON**

Table 19

93. PreWash #1 Fill/Tumble Drain "+093"

This option allows the owner to program which drain option will be used during PreWash #1 Fill and Tumble for all cycles.

How to Program PreWash #1 Fill/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
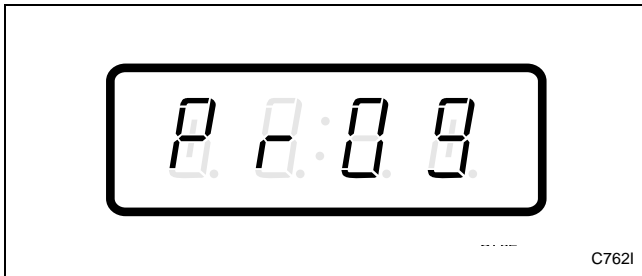

Figure 144

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+093" appears in the VFD. Refer to *Figure 145*.
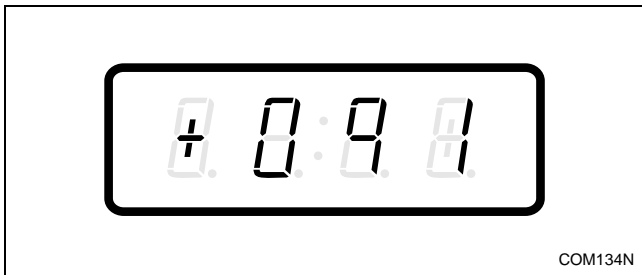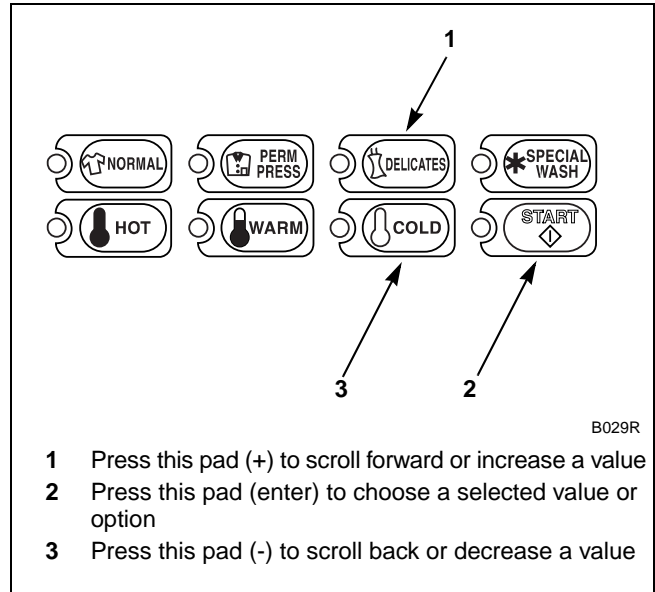

Figure 145

4. When "+093" appears in the VFD, press the START (enter) keypad. The current drain output value for the PreWash #1 Fill and Tumble will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 146*.

NOTE: Default output value is 001.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 146

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+094", will appear in the VFD.

NOTE: To program "+094" (PreWash #1 Drain/ Tumble Drain), refer to *option 94*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 20*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 20

94. PreWash #1 Drain/Tumble Drain "+094"

This option allows the owner to program which drain option will be used during PreWash #1 Tumble and Drain for all cycles.

How to Program PreWash #1 Drain/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
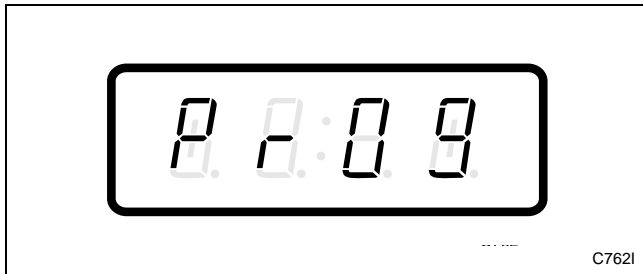

Figure 147

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+094" appears in the VFD. Refer to *Figure 148*.
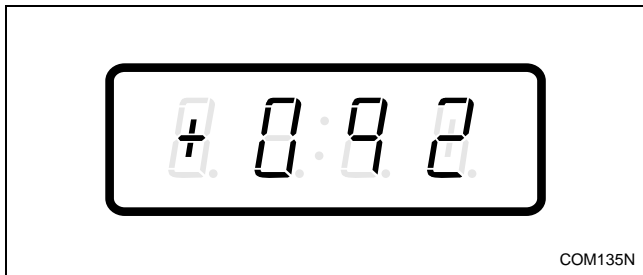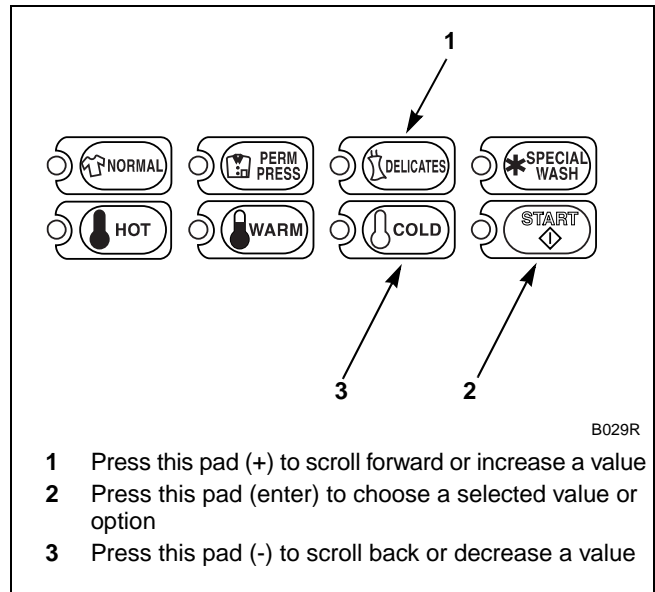

Figure 148

4. When "+094" appears in the VFD, press the START (enter) keypad. The current drain output value for the PreWash #1 Drain/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 149*.

NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 149

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+095", will appear in the VFD.

NOTE: To program "+095" (PreWash #1 Extract Drain), refer to *option 95*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 21*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 21

95. PreWash #1 Extract Drain "+095"

This option allows the owner to program which drain option will be used during PreWash #1 Extraction for all cycles.

How to Program PreWash #1 Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
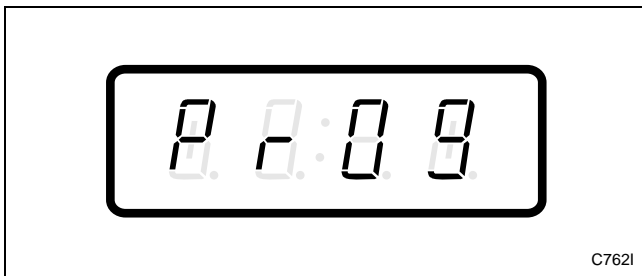

Figure 150

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+095" appears in the VFD. Refer to *Figure 151*.
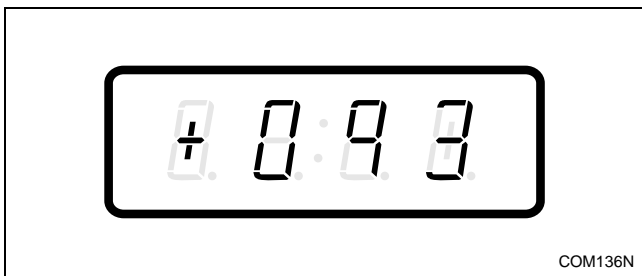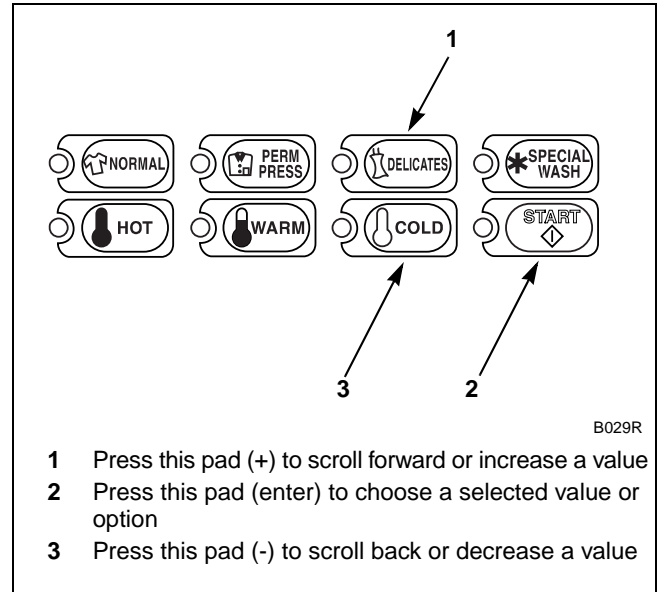

Figure 151

4. When "+095" appears in the VFD, press the START (enter) keypad. The current drain output value for the PreWash #1 Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 152*.

NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 152

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+096", will appear in the VFD.

NOTE: To program "+096" (PreWash #2 Fill/ Tumble Drain), refer to *option 96*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 22*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 22

96. PreWash #2 Fill/Tumble Drain "+096"

This option allows the owner to program which drain option will be used during PreWash #2 Fill and Tumble for all cycles.

How to Program PreWash #2 Fill/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
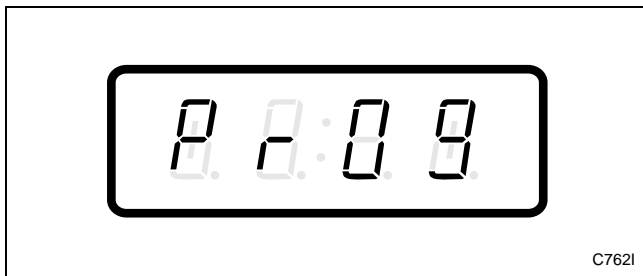

Figure 153

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+096" appears in the VFD. Refer to *Figure 154*.
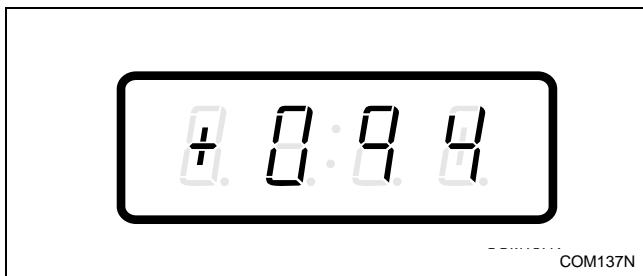

Figure 154

4. When "+096" appears in the VFD, press the START (enter) keypad. The current drain output value for the PreWash #2 Fill/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 155*.

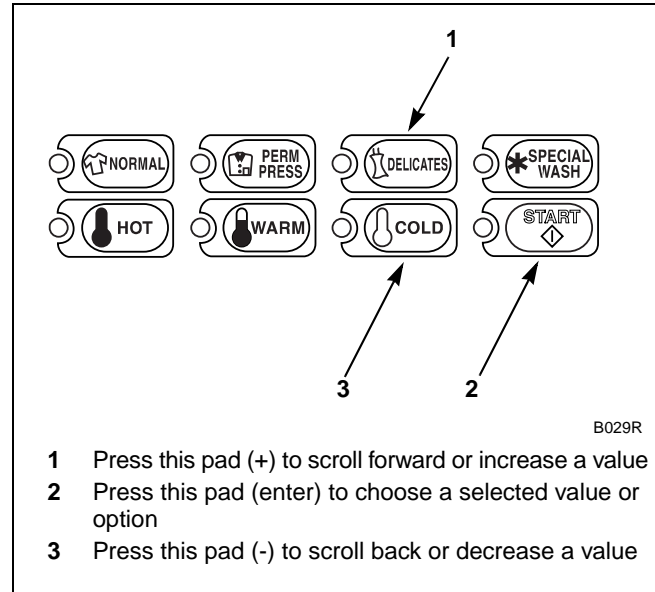**NOTE: Default output value is 001.**

1	Press this pad (+) to scroll forward or increase a value
2	Press this pad (enter) to choose a selected value or option
3	Press this pad (-) to scroll back or decrease a value

Figure 155

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+097", will appear in the VFD.

NOTE: To program "+097" (PreWash #2 Drain/ Tumble Drain), refer to *option 97*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 23*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 23

97. PreWash #2 Drain/Tumble Drain "+097"

This option allows the owner to program which drain option will be used during PreWash #2 Tumble and Drain for all cycles.

How to Program PreWash #2 Drain/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
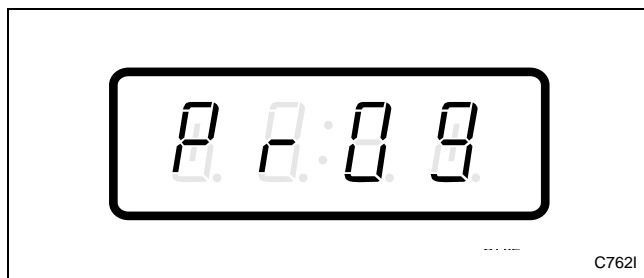

Figure 156

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+097" appears in the VFD. Refer to *Figure 157*.
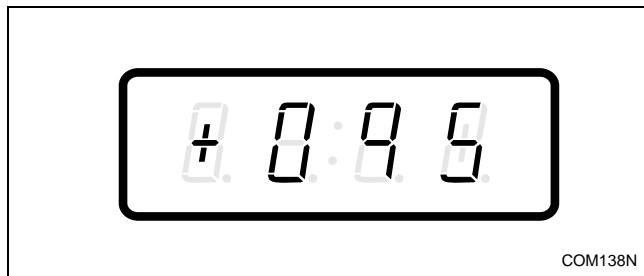

Figure 157

4. When "+097" appears in the VFD, press the START (enter) keypad. The current drain output value for the PreWash #2 Drain/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 158*.
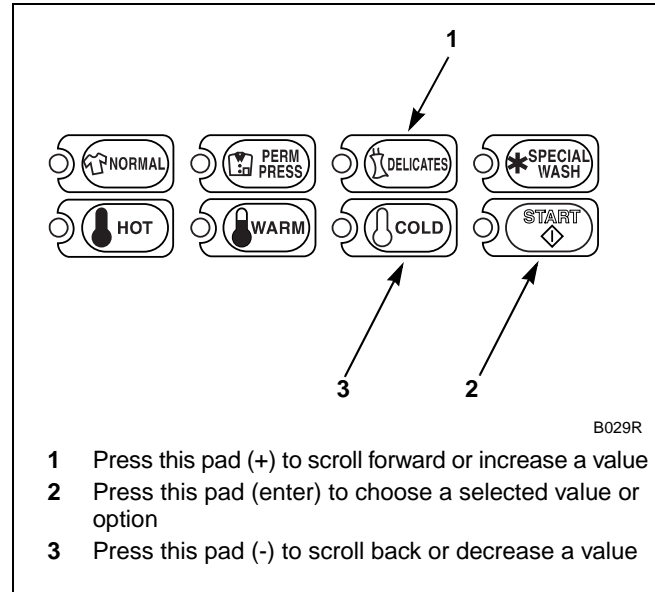
NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 158

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+098", will appear in the VFD.

NOTE: To program "+098" (PreWash #2 Extract Drain), refer to *option 98*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 24*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 24

98. PreWash #2 Extract Drain "+098"

This option allows the owner to program which drain option will be used during PreWash #2 Extraction for all cycles.

How to Program PreWash #2 Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
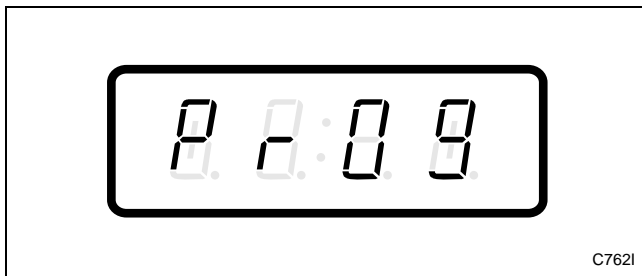

Figure 159

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+098" appears in the VFD. Refer to *Figure 160*.
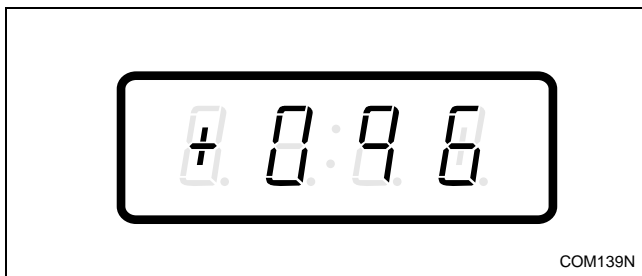

Figure 160

4. When "+098" appears in the VFD, press the START (enter) keypad. The current drain output value for the PreWash #2 Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 161*.
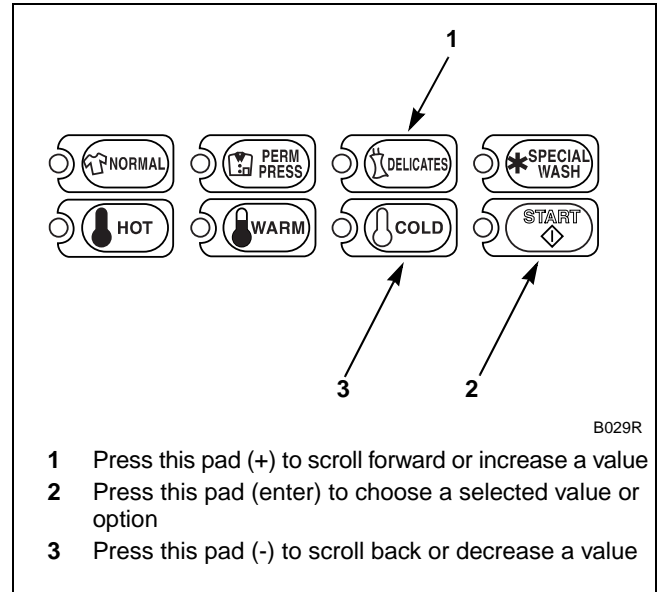
NOTE: Default output value is 002.

1   Press this pad (+) to scroll forward or increase a value
2   Press this pad (enter) to choose a selected value or option
3   Press this pad (-) to scroll back or decrease a value

Figure 161

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+099", will appear in the VFD.

NOTE: To program "+099" (Wash Fill/Tumble Drain), refer to *option 99*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

   F232152

Reading *Table 25*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 25

99. Wash Fill/Tumble Drain "+099"

This option allows the owner to program which drain option will be used during Wash Fill and Tumble for all cycles.

How to Program Wash Fill/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
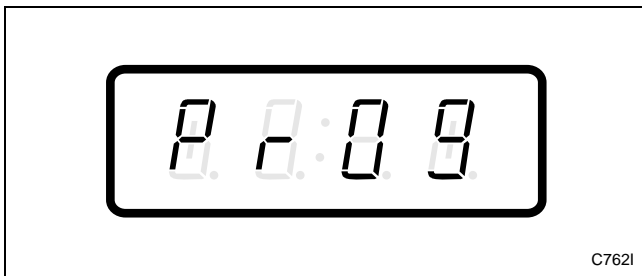

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Figure 162

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+099" appears in the VFD. Refer to *Figure 163*.
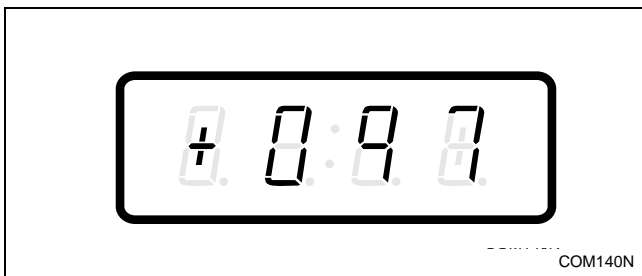

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Figure 163

4. When "+099" appears in the VFD, press the START (enter) keypad. The current drain output value for the Wash Fill/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 164*.
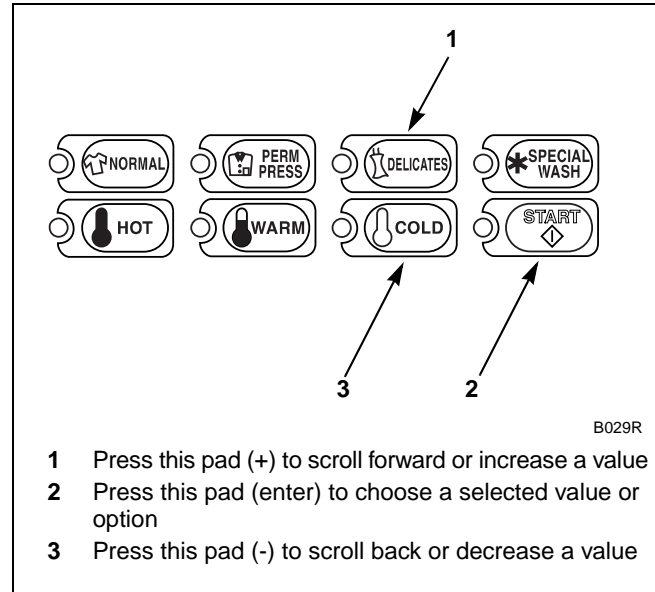
NOTE: Default output value is 001.

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1	Press this pad (+) to scroll forward or increase a value
2	Press this pad (enter) to choose a selected value or option
3	Press this pad (-) to scroll back or decrease a value

Figure 164

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+100", will appear in the VFD.

NOTE: To program "+100" (Wash Drain/Tumble Drain), refer to *option 100*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 26*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 26

100. Wash Drain/Tumble Drain "+100"

This option allows the owner to program which drain option will be used during Wash Tumble and Drain for all cycles.

How to Program Wash Drain/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
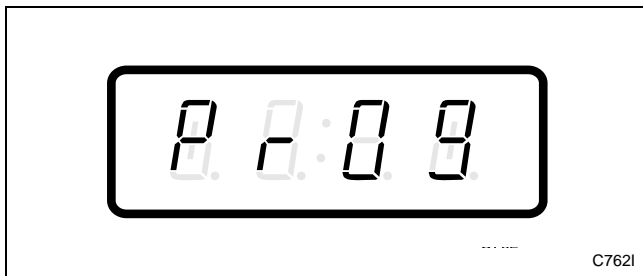

Figure 165

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+100" appears in the VFD. Refer to *Figure 166*.
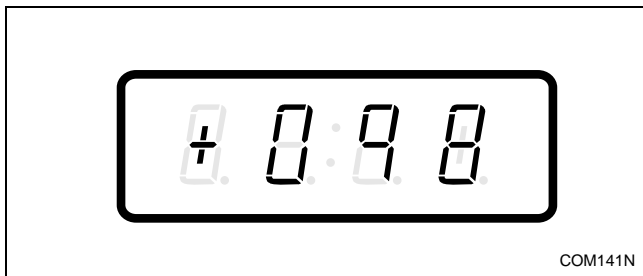

Figure 166

4. When "+100" appears in the VFD, press the START (enter) keypad. The current drain output value for the Wash Drain/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 167*.
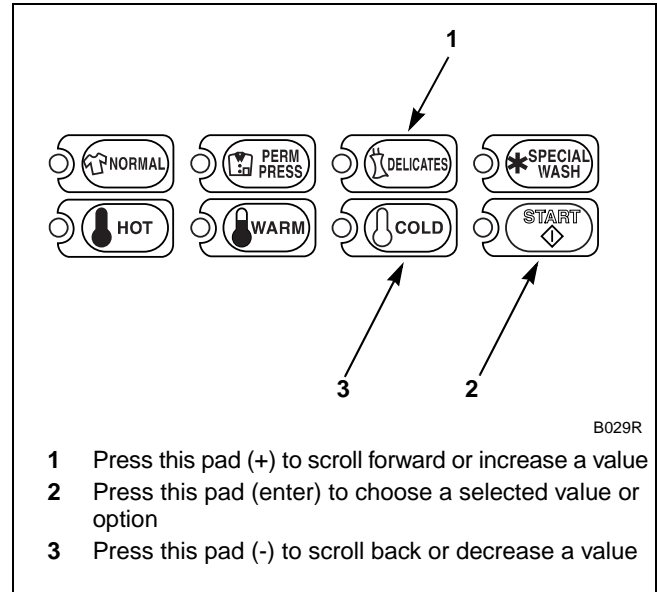
NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 167

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+101", will appear in the VFD.

NOTE: To program "+101" (Wash Extract Drain), refer to *option 101*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 27*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 27

101. Wash Extract Drain "+101"

This option allows the owner to program which drain option will be used during Wash Extraction for all cycles.

How to Program Wash Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
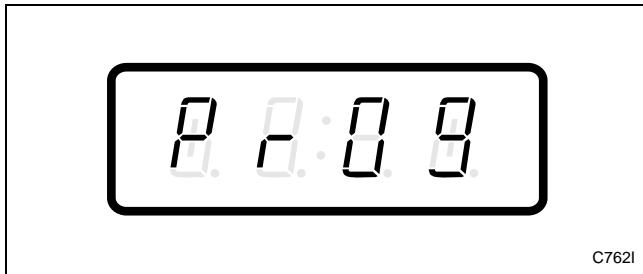

Figure 168

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+101" appears in the VFD. Refer to *Figure 169*.
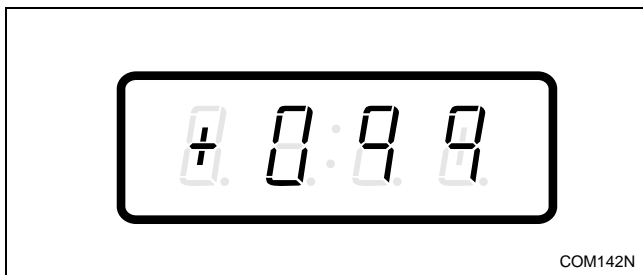

Figure 169

4. When "+101" appears in the VFD, press the START (enter) keypad. The current drain output value for the Wash Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 170*.
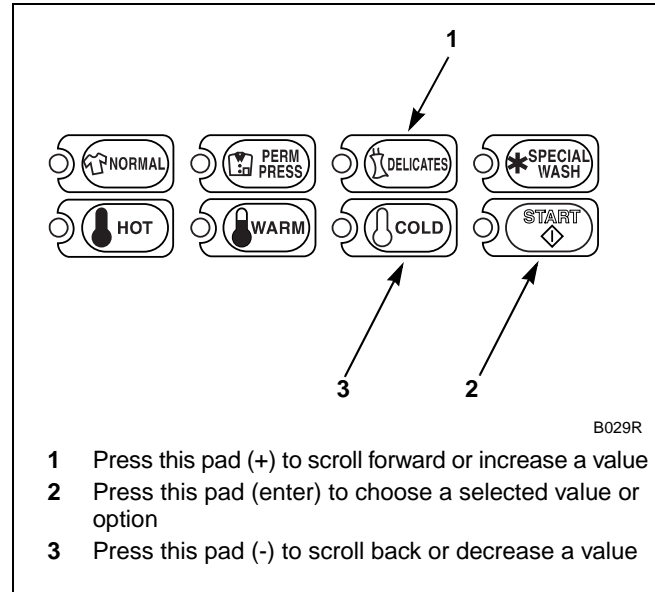
NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 170

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+102", will appear in the VFD.

NOTE: To program "+102" (Rinse #1 Fill/Tumble Drain), refer to *option 102*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Reading *Table 28*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 28

102. Rinse #1 Fill/Tumble Drain "+102"

This option allows the owner to program which drain option will be used during the Initial Rinse Fill and Tumble for all cycles.

How to Program Rinse #1 Fill/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
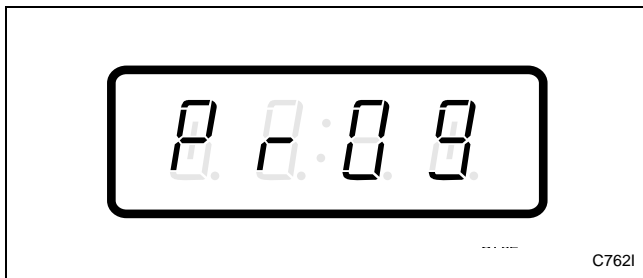

Figure 171

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+102" appears in the VFD. Refer to *Figure 172*.
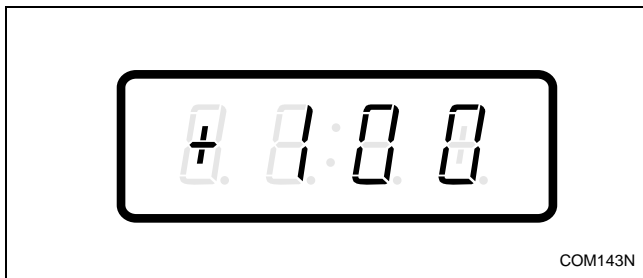

Figure 172

4. When "+102" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse #1 Fill/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 173*.

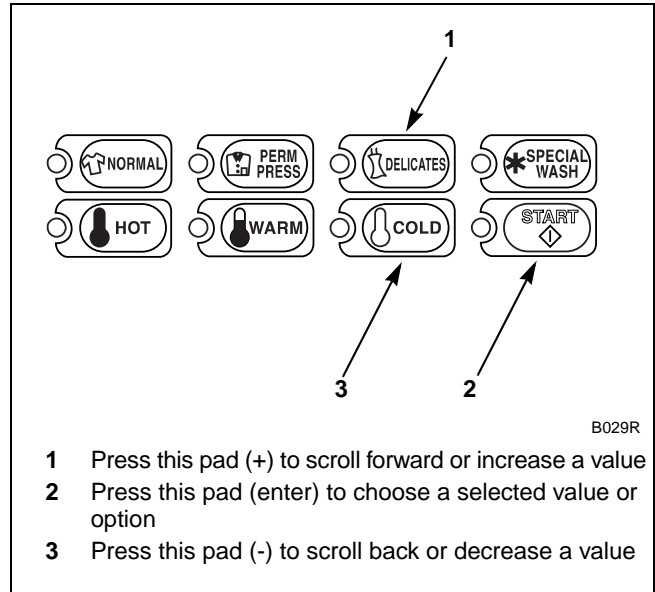**NOTE: Default output value is 001.**

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 173

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+103", will appear in the VFD.

NOTE: To program "+103" (Rinse #1 Drain/ Tumble Drain), refer to *option 103*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 29*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 29

103. Rinse #1 Drain/Tumble Drain "+103"

This option allows the owner to program which drain option will be used during the Initial Rinse Tumble and Drain for all cycles.

How to Program Rinse #1 Drain/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
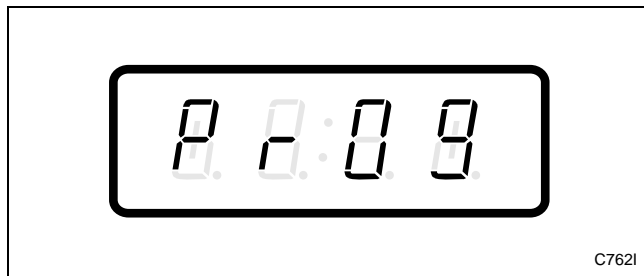

Figure 174

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+103" appears in the VFD. Refer to *Figure 175*.
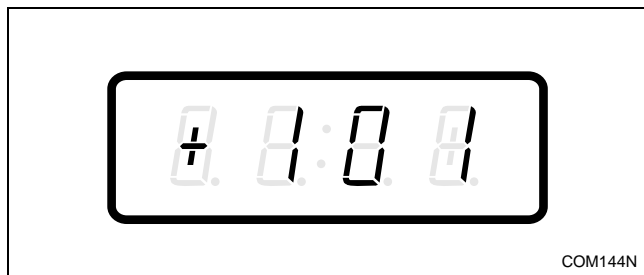

Figure 175

4. When "+103" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse #1 Drain/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 176*.
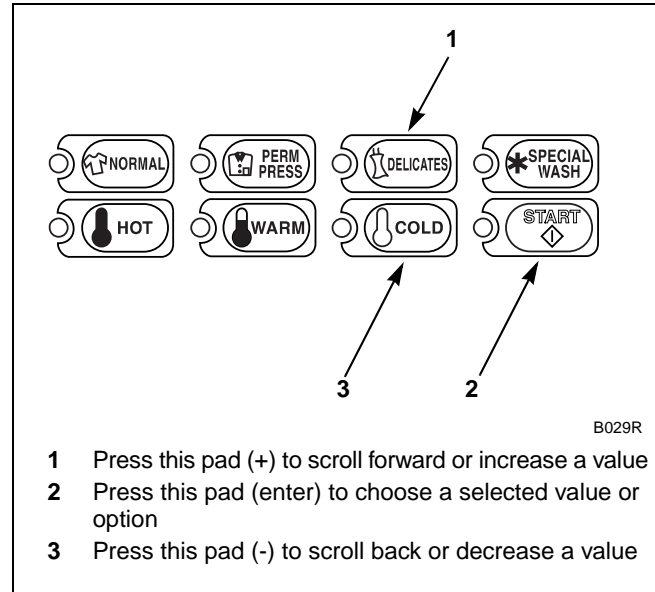
NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 176

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+104", will appear in the VFD.

NOTE: To program "+104" (Rinse #1 Extract Drain), refer to *option 104*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

F232152

Reading *Table 30*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options			
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).			
Auxiliary Drain = Sends signal to an optional auxiliary drain control.			
Electric Pump = Water will be pumped from cylinder to increase removal time.			
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).			
Output Value	**Auxiliary Drain**	**Electric Pump**	**Dump Valve**
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 30

104. Rinse #1 Extract Drain "+104"

This option allows the owner to program which drain option will be used during Rinse #1 Extraction for all cycles.

How to Program Rinse #1 Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
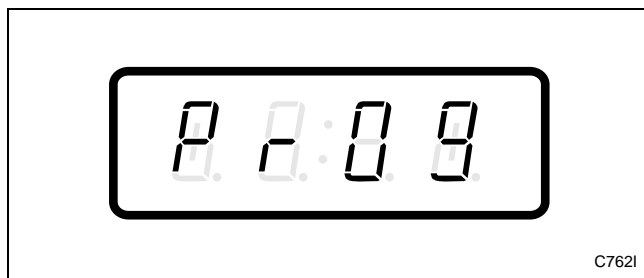

Figure 177

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+104" appears in the VFD. Refer to *Figure 178*.
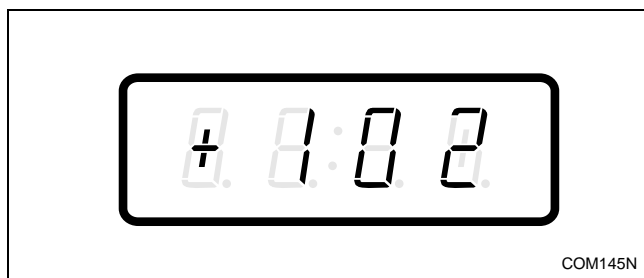

Figure 178

4. When "+104" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse #1 Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 179*.
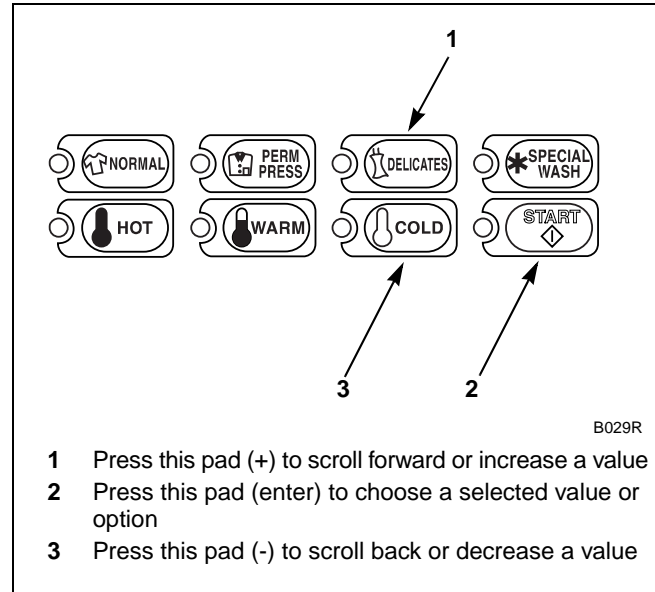
NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 179

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+105", will appear in the VFD.

NOTE: To program "+105" (Rinse Extra Fill/ Tumble Drain), refer to *option 105*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 31*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options			
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).			
Auxiliary Drain = Sends signal to an optional auxiliary drain control.			
Electric Pump = Water will be pumped from cylinder to increase removal time.			
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).			
Output Value	**Auxiliary Drain**	**Electric Pump**	**Dump Valve**
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 31

105. Rinse Extra Fill/Tumble Drain "+105"

This option allows the owner to program which drain option will be used during Extra Rinse Fill and Tumble for all cycles.

How to Program Rinse Extra Fill/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
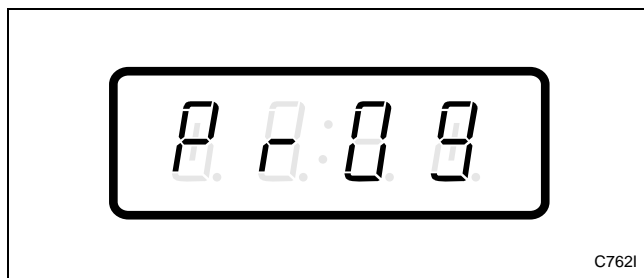

Figure 180

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+105" appears in the VFD. Refer to *Figure 181*.
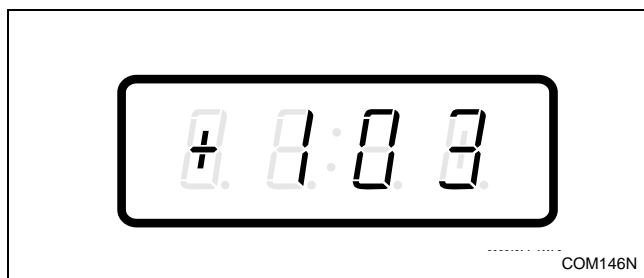

Figure 181

4. When "+105" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse Extra Fill/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 182*.
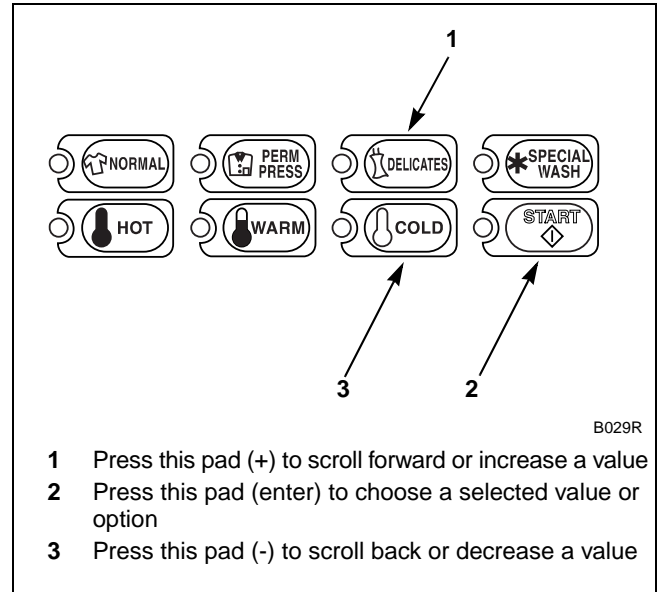
NOTE: Default output value is 001.

1	Press this pad (+) to scroll forward or increase a value
2	Press this pad (enter) to choose a selected value or option
3	Press this pad (-) to scroll back or decrease a value
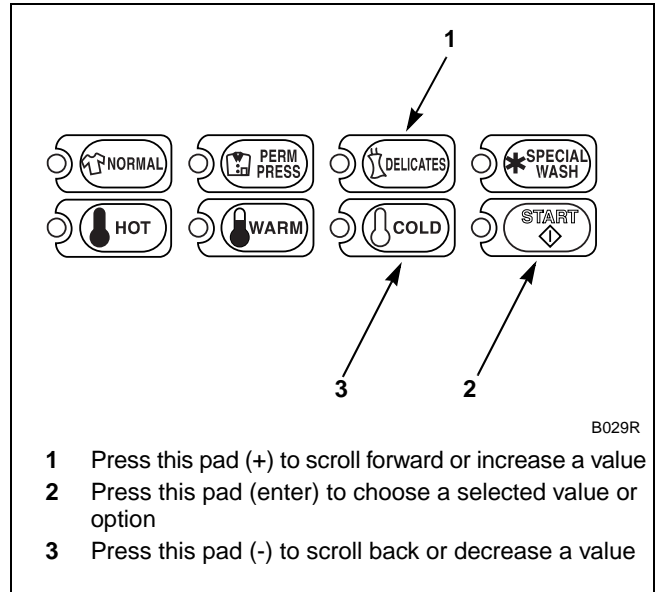
Figure 182

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+106", will appear in the VFD.

NOTE: To program "+106" (Rinse Extra Drain/ Tumble Drain), refer to *option 106*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 32*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 32

106. Rinse Extra Drain/Tumble Drain "+106"

This option allows the owner to program which drain option will be used during Extra Rinse Tumble and Drain for all cycles.

How to Program Rinse Extra Drain/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
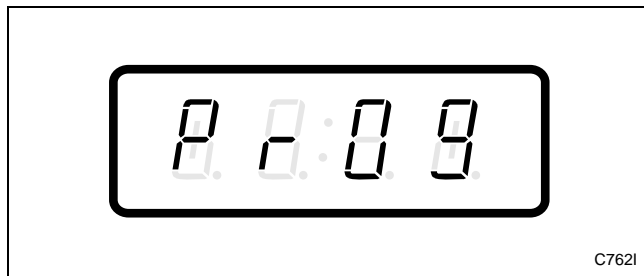

Figure 183

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+106" appears in the VFD. Refer to *Figure 184*.
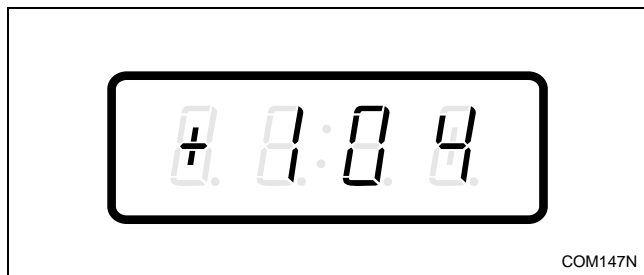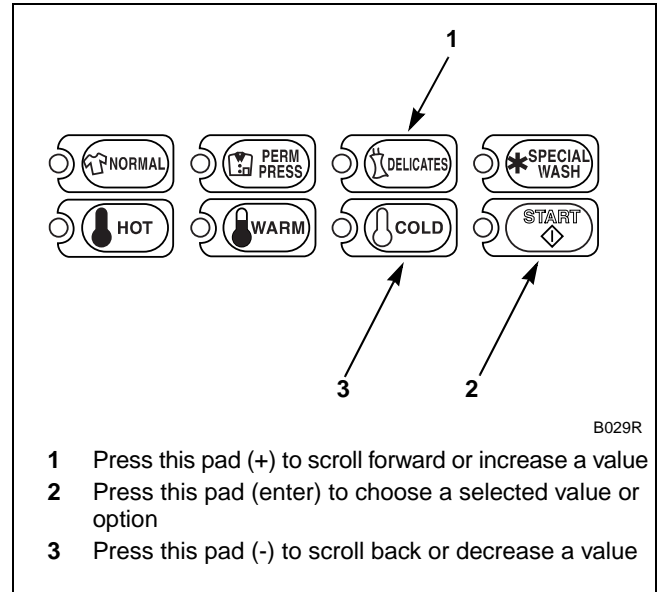

Figure 184

4. When "+106" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse Extra Drain/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 185*.

NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 185

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+107", will appear in the VFD.

NOTE: To program "+107" (Rinse Extra Extract Drain), refer to *option 107*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 33*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 33

107. Rinse Extra Extract Drain "+107"

This option allows the owner to program which drain option will be used during Extra Rinse Extraction for all cycles.

How to Program Rinse Extra Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
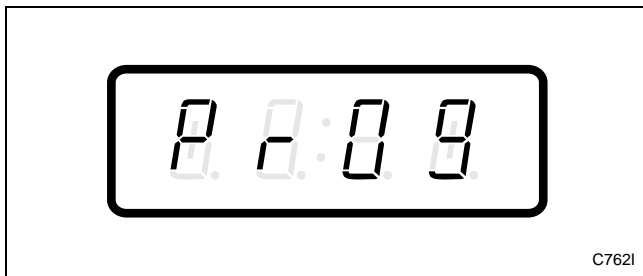

Figure 186

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+107" appears in the VFD. Refer to *Figure 187*.
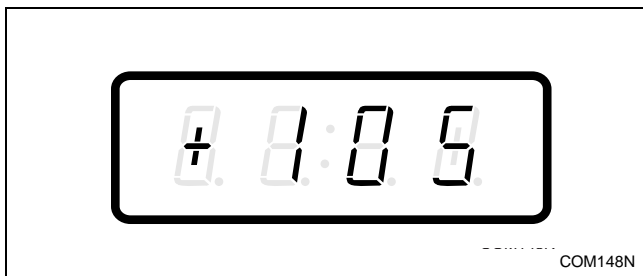

Figure 187

4. When "+107" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse Extra Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 188*.

NOTE: Default output value is 002.

1	Press this pad (+) to scroll forward or increase a value
2	Press this pad (enter) to choose a selected value or option
3	Press this pad (-) to scroll back or decrease a value

Figure 188

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+108", will appear in the VFD.

NOTE: To program "+108" (Rinse Final Fill/ Tumble Drain), refer to *option 108*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

   F232152

Reading *Table 34*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 34

108. Rinse Final Fill/Tumble Drain "+108"

This option allows the owner to program which drain option will be used during Final Rinse Fill and Tumble for all cycles.

How to Program Rinse Final Fill/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
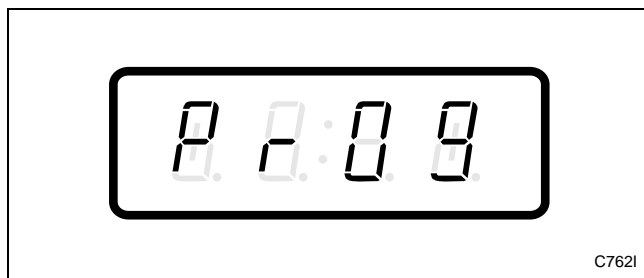

Figure 189

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+108" appears in the VFD. Refer to *Figure 190*.
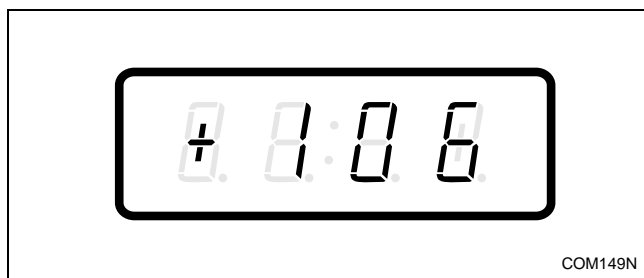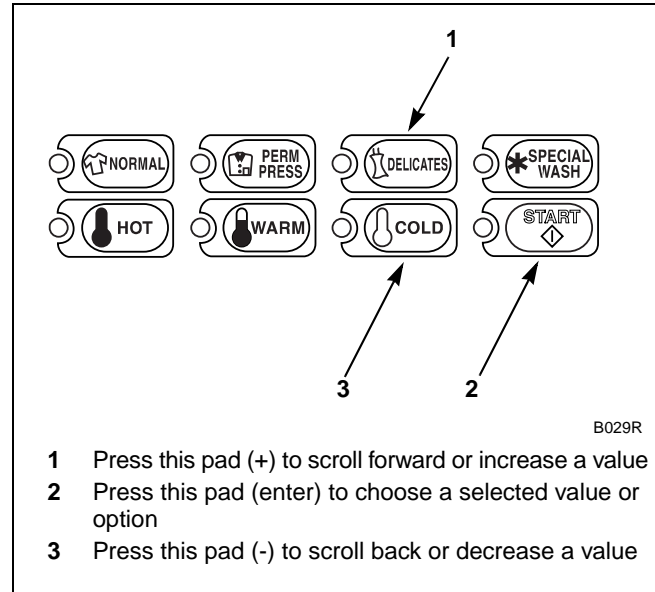

Figure 190

4. When "+108" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse Final Fill/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 191*.

NOTE: Default output value is 001.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 191

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+109", will appear in the VFD.

NOTE: To program "+109" (**Rinse Final Drain/ Tumble Drain), refer to** *option 109***. To program other options, refer to the appropriate section.**

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 35*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 35

109. Rinse Final Drain/Tumble Drain "+109"

This option allows the owner to program which drain option will be used during Final Rinse Tumble and Drain for all cycles.

How to Program Rinse Final Drain/Tumble Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
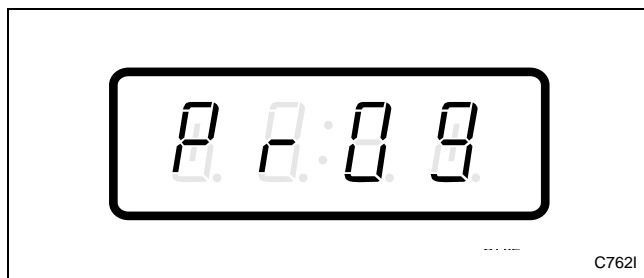

Figure 192

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+109" appears in the VFD. Refer to *Figure 193*.
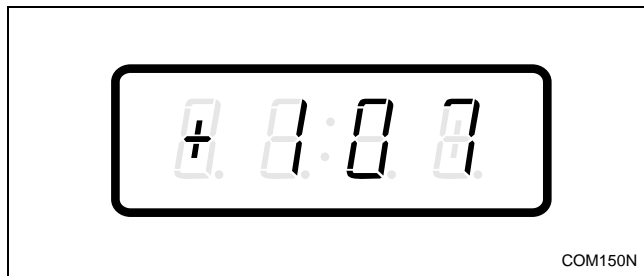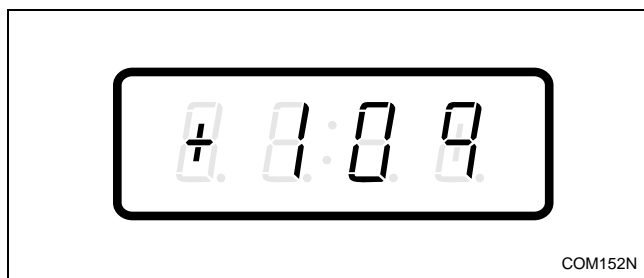

Figure 193

4. When "+109" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse Final Drain/Tumble Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 194*.

NOTE: Default output value is 002.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 194

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+110", will appear in the VFD.

NOTE: To program "+110" (Rinse Final Extract Drain), refer to *option 110*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 36*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 36

110. Rinse Final Extract Drain "+110"

This option allows the owner to program which drain option will be used during Final Rinse Extraction for all cycles.

How to Program Rinse Final Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
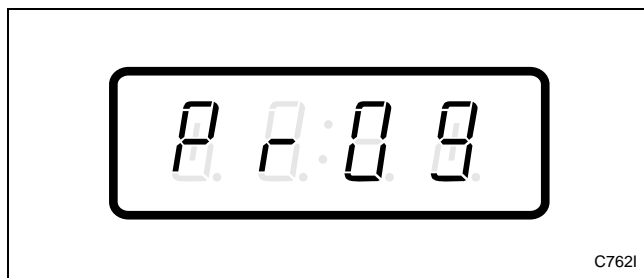

Figure 195

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+110" appears in the VFD. Refer to *Figure 196*.
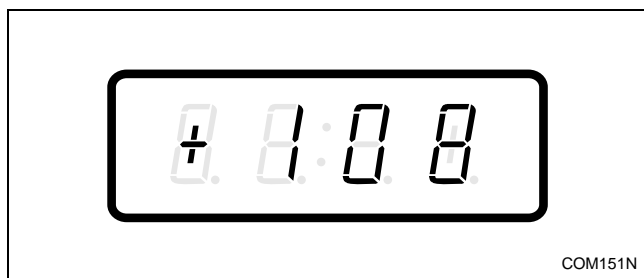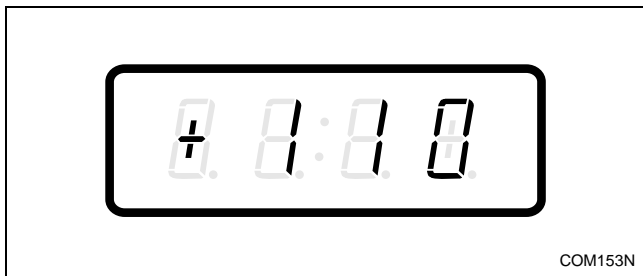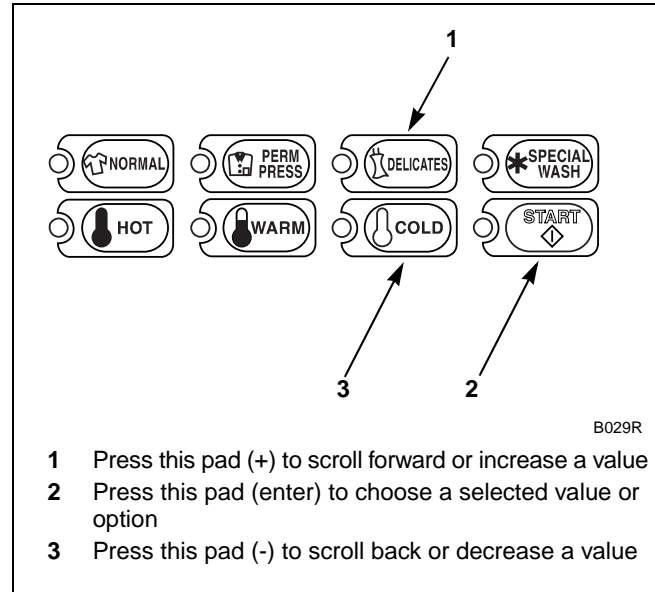

Figure 196

4. When "+110" appears in the VFD, press the START (enter) keypad. The current drain output value for the Rinse Final Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 197*.

NOTE: Default output value is 002.
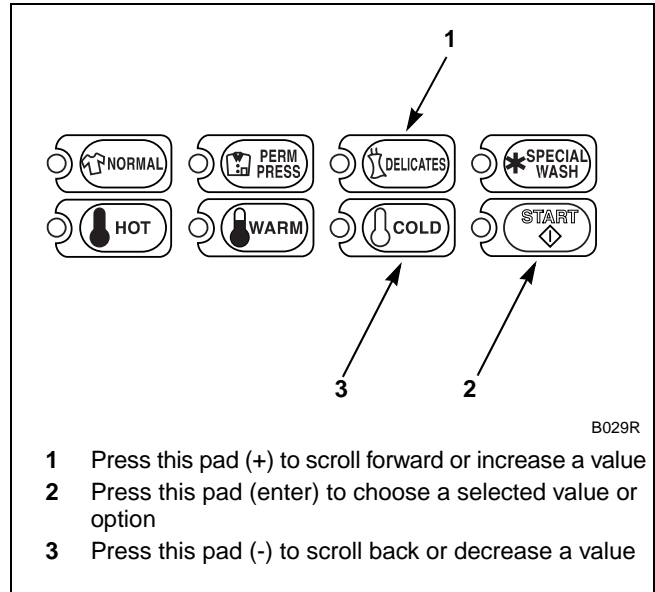
1	Press this pad (+) to scroll forward or increase a value
2	Press this pad (enter) to choose a selected value or option
3	Press this pad (-) to scroll back or decrease a value

Figure 197

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+111", will appear in the VFD.

NOTE: To program "+111" (Spin Extract Drain), refer to *option 111*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 37*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 37

111. Spin Extract Drain "+111"

This option allows the owner to program which drain option will be used during Spin Extraction for all cycles.

How to Program Spin Extract Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
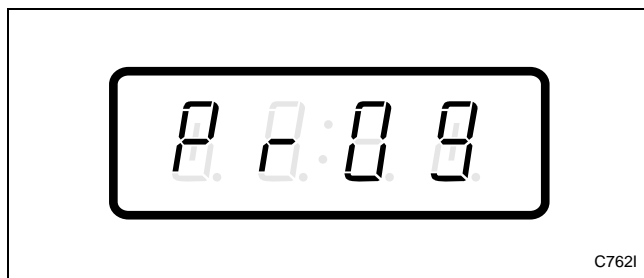

C762I
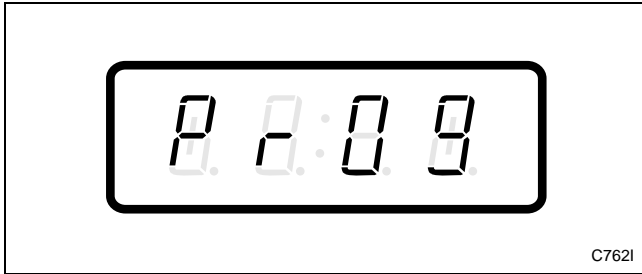
Figure 198

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+111" appears in the VFD. Refer to *Figure 199*.

COM154N
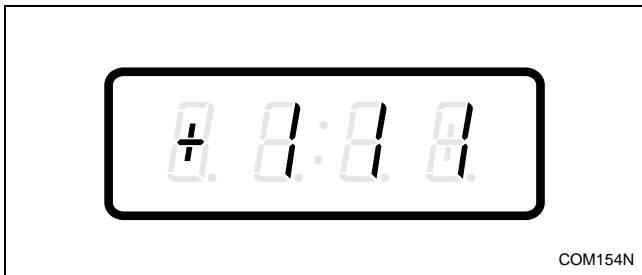
Figure 199

4. When "+111" appears in the VFD, press the START (enter) keypad. The current drain output value for the Spin Extract Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 200*.

NOTE: Default output value is 002.

B029R

1	Press this pad (+) to scroll forward or increase a value
2	Press this pad (enter) to choose a selected value or option
3	Press this pad (-) to scroll back or decrease a value

Figure 200

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+112", will appear in the VFD.

NOTE: To program "+112" (Spin Shakeout Drain), refer to *option 112*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Reading *Table 38*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options			
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).			
Auxiliary Drain = Sends signal to an optional auxiliary drain control.			
Electric Pump = Water will be pumped from cylinder to increase removal time.			
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).			
Output Value	**Auxiliary Drain**	**Electric Pump**	**Dump Valve**
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 38

112. Spin Shakeout Drain "+112"

This option allows the owner to program which drain option will be used during Spin Shakeout for all cycles.

How to Program Spin Shakeout Drain

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
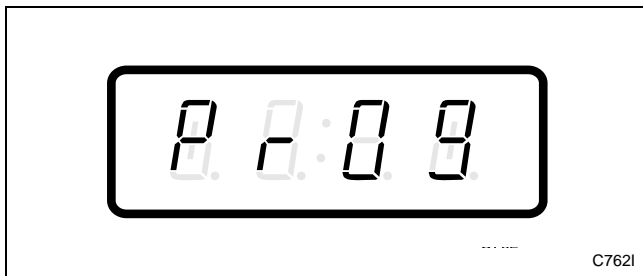

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Figure 201

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+112" appears in the VFD. Refer to *Figure 202*.

COM155N
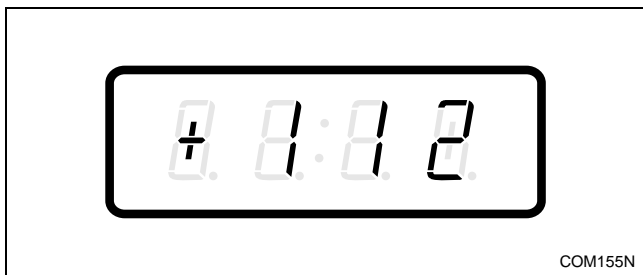
Figure 202

4. When "+112" appears in the VFD, press the START (enter) keypad. The current drain output value for the Spin Shakeout Drain will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current output value displayed in the VFD to the desired output value. Refer to *Figure 203*.

NOTE: Default output value is 002.

B029R

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 203

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+113", will appear in the VFD.

NOTE: To program "+113" (Water Inlet), refer to *option 113*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 39*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Output value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Table Options
All options "OFF" = Water will not be drained from cylinder and water will be used for next period of cycle (for pump models only).
Auxiliary Drain = Sends signal to an optional auxiliary drain control.
Electric Pump = Water will be pumped from cylinder to increase removal time.
Dump Valve = Water will be drained through an electronically operated valve, if open (OFF). Water will not be drained if closed (ON).

Output Value	Auxiliary Drain	Electric Pump	Dump Valve
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
004	**ON**	OFF	OFF
005	**ON**	OFF	**ON**
006	**ON**	**ON**	OFF
007	**ON**	**ON**	**ON**

Table 39

113. Water Inlet "+113"

This option allows the owner to program which Water Inlet will be used during the six phases of a cycle.

How to Program Water Inlet

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 204

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+113" appears in the VFD. Refer to *Figure 205*.
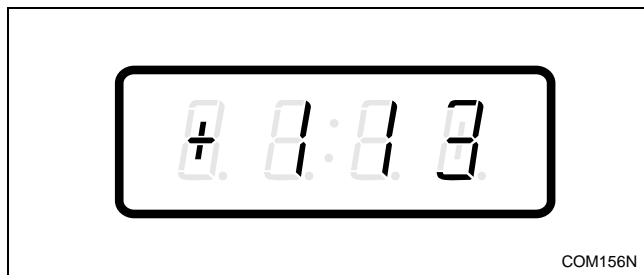
Figure 205

4. When "+113" appears in the VFD, press the START (enter) keypad. The current Water Inlet value will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current value to the desired value. Refer to *Figure 206*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 206

6. Press the START (enter) keypad when the correct value appears in the VFD. The next option, "+114", will appear in the VFD.

NOTE: To program "+114" (Lucky Option), refer to *option 114* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

 F232152

Reading *Table 40*

To determine correct output value required, review table below. Read each row from left to right. Starting number of row indicates required input value number to be entered into electronic control.

Input value is followed by six option columns. Option columns state whether the Standard or Auxiliary water inlet will be used.

Input Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
000	Standard	Standard	Standard	Standard	Standard	Standard
001	Auxiliary	Standard	Standard	Standard	Standard	Standard
002	Standard	Auxiliary	Standard	Standard	Standard	Standard
003	Auxiliary	Auxiliary	Standard	Standard	Standard	Standard
004	Standard	Standard	Auxiliary	Standard	Standard	Standard
005	Auxiliary	Standard	Auxiliary	Standard	Standard	Standard
006	Standard	Auxiliary	Auxiliary	Standard	Standard	Standard
007	Auxiliary	Auxiliary	Auxiliary	Standard	Standard	Standard
008	Standard	Standard	Standard	Auxiliary	Standard	Standard
009	Auxiliary	Standard	Standard	Auxiliary	Standard	Standard
010	Standard	Auxiliary	Standard	Auxiliary	Standard	Standard
011	Auxiliary	Auxiliary	Standard	Auxiliary	Standard	Standard
012	Standard	Standard	Auxiliary	Auxiliary	Standard	Standard
013	Auxiliary	Standard	Auxiliary	Auxiliary	Standard	Standard
014	Standard	Auxiliary	Auxiliary	Auxiliary	Standard	Standard
015	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Standard	Standard
016	Standard	Standard	Standard	Standard	Auxiliary	Standard
017	Auxiliary	Standard	Standard	Standard	Auxiliary	Standard
018	Standard	Auxiliary	Standard	Standard	Auxiliary	Standard
019	Auxiliary	Auxiliary	Standard	Standard	Auxiliary	Standard
020	Standard	Standard	Auxiliary	Standard	Auxiliary	Standard
021	Auxiliary	Standard	Auxiliary	Standard	Auxiliary	Standard
022	Standard	Auxiliary	Auxiliary	Standard	Auxiliary	Standard
023	Auxiliary	Auxiliary	Auxiliary	Standard	Auxiliary	Standard
024	Standard	Standard	Standard	Auxiliary	Auxiliary	Standard
025	Auxiliary	Standard	Standard	Auxiliary	Auxiliary	Standard
026	Standard	Auxiliary	Standard	Auxiliary	Auxiliary	Standard
027	Auxiliary	Auxiliary	Standard	Auxiliary	Auxiliary	Standard
028	Standard	Standard	Auxiliary	Auxiliary	Auxiliary	Standard
029	Auxiliary	Standard	Auxiliary	Auxiliary	Auxiliary	Standard
030	Standard	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Standard
031	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Standard
032	Standard	Standard	Standard	Standard	Standard	Auxiliary
033	Auxiliary	Standard	Standard	Standard	Standard	Auxiliary

Table 40 (Continued)

Table 40 (Continued)

Input Value	PreWash #1	PreWash #2	Wash	Initial Rinse	Extra Rinse	Final Rinse
034	Standard	Auxiliary	Standard	Standard	Standard	Auxiliary
035	Auxiliary	Auxiliary	Standard	Standard	Standard	Auxiliary
036	Standard	Standard	Auxiliary	Standard	Standard	Auxiliary
037	Auxiliary	Standard	Auxiliary	Standard	Standard	Auxiliary
038	Standard	Auxiliary	Auxiliary	Standard	Standard	Auxiliary
039	Auxiliary	Auxiliary	Auxiliary	Standard	Standard	Auxiliary
040	Standard	Standard	Standard	Auxiliary	Standard	Auxiliary
041	Auxiliary	Standard	Standard	Auxiliary	Standard	Auxiliary
042	Standard	Auxiliary	Standard	Auxiliary	Standard	Auxiliary
043	Auxiliary	Auxiliary	Standard	Auxiliary	Standard	Auxiliary
044	Standard	Standard	Auxiliary	Auxiliary	Standard	Auxiliary
045	Auxiliary	Standard	Auxiliary	Auxiliary	Standard	Auxiliary
046	Standard	Auxiliary	Auxiliary	Auxiliary	Standard	Auxiliary
047	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Standard	Auxiliary
048	Standard	Standard	Standard	Standard	Auxiliary	Auxiliary
049	Auxiliary	Standard	Standard	Standard	Auxiliary	Auxiliary
050	Standard	Auxiliary	Standard	Standard	Auxiliary	Auxiliary
051	Auxiliary	Auxiliary	Standard	Standard	Auxiliary	Auxiliary
052	Standard	Standard	Auxiliary	Standard	Auxiliary	Auxiliary
053	Auxiliary	Standard	Auxiliary	Standard	Auxiliary	Auxiliary
054	Standard	Auxiliary	Auxiliary	Standard	Auxiliary	Auxiliary
055	Auxiliary	Auxiliary	Auxiliary	Standard	Auxiliary	Auxiliary
056	Standard	Standard	Standard	Auxiliary	Auxiliary	Auxiliary
057	Auxiliary	Standard	Standard	Auxiliary	Auxiliary	Auxiliary
058	Standard	Auxiliary	Standard	Auxiliary	Auxiliary	Auxiliary
059	Auxiliary	Auxiliary	Standard	Auxiliary	Auxiliary	Auxiliary
060	Standard	Standard	Auxiliary	Auxiliary	Auxiliary	Auxiliary
061	Auxiliary	Standard	Auxiliary	Auxiliary	Auxiliary	Auxiliary
062	Standard	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Auxiliary
063	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Auxiliary	Auxiliary

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115. Special Cycle Option "+115"

This option allows the owner to program the machine to offer very high speed in final extract step and warm water in final rinse step to customers for an added vend price.

How to Program Special Cycle Option

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
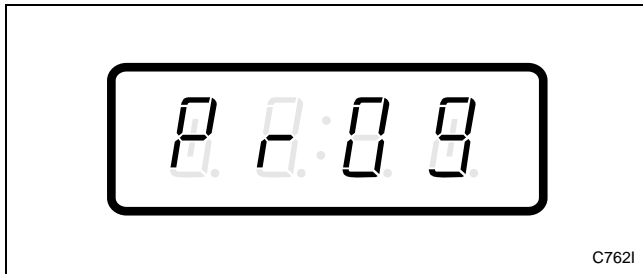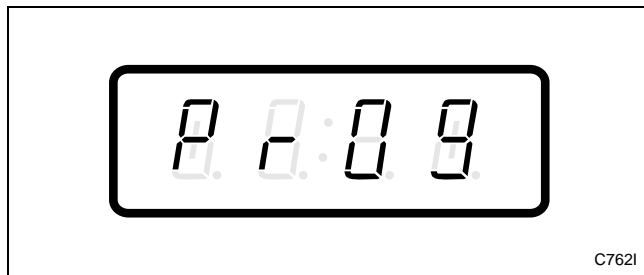

C762I

Figure 207

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+115" appears in the VFD. Refer to *Figure 208*.


COM157N

Figure 208

4. When "+115" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Special Cycle Option Programming Value.

5. Locate the desired number in the first column of *Table 41* on the following page.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 209*.

B029R

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
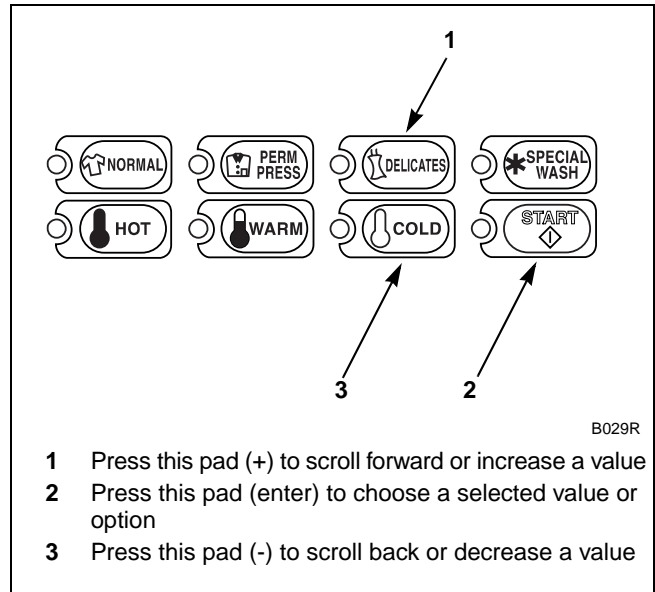**3** Press this pad (-) to scroll back or decrease a value

Figure 209

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+116", will appear in the VFD.

NOTE: To program "+116" (Special Cycle Extra Wash Fill/Agitate Time), refer to *option 116*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Programming NetMaster

Reading *Table 41*

To determine correct Special Cycle value required, review table below. Read each row from left to right. Starting number of row indicates required output value number to be entered into electronic control.

Special Cycle value is followed by three option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

NOTE: Very High Speed is available on Variable Frequency Drive models (NCV, NRV, or NXV) only.

Special Cycle Value	Special Cycle Option Off/On	Very High Speed in Final Extract Step	Warm Water in Final Rinse Step
000	OFF	OFF	OFF
001	OFF	OFF	**ON**
002	OFF	**ON**	OFF
003	OFF	**ON**	**ON**
128	**ON**	OFF	OFF
129	**ON**	OFF	**ON**
130	**ON**	**ON**	OFF
131	**ON**	**ON**	**ON**

Table 41

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116. Special Cycle Extra Wash Fill/Agitate Time "+116"

This option allows the owner to set the amount of extra wash time during agitation for the Special Cycle.

How to Program Special Cycle Extra Wash Fill/Agitate Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

Figure 210

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+116" appears in the VFD. Refer to *Figure 211*.

Figure 211

4. When "+116" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Special Cycle Extra Wash Fill/Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 212*.

NOTE: The Special Cycle Extra Wash Fill/Agitate Time can be set from zero (0) to 15 minutes.

1. Press this pad (+) to scroll forward or increase a value
2. Press this pad (enter) to choose a selected value or option
3. Press this pad (-) to scroll back or decrease a value

Figure 212

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+117", will appear in the VFD.

NOTE: The Special Cycle option needs to be turned on (refer to *option 115*) for the Special Cycle Extra Wash Fill/Agitate Time to take effect.

NOTE: To program "+117" (Special Cycle Extra Rinse Extra Fill/Agitate Time), refer to *option 117*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

117. Special Cycle Extra Rinse Extra Fill/Agitate Time "+117"

This option allows the owner to set the amount of additional extra rinse fill time during agitation for the Special Cycle.

How to Program Special Cycle Extra Rinse Extra Fill/Agitate Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

C762I
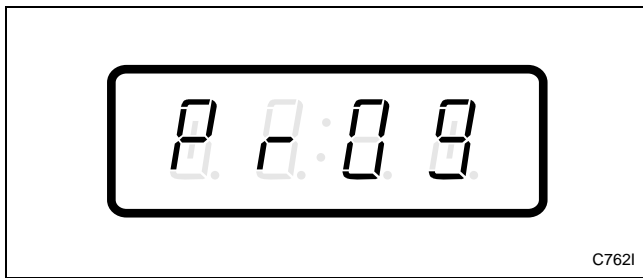
Figure 213

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+117" appears in the VFD. Refer to *Figure 214*.

COM161N
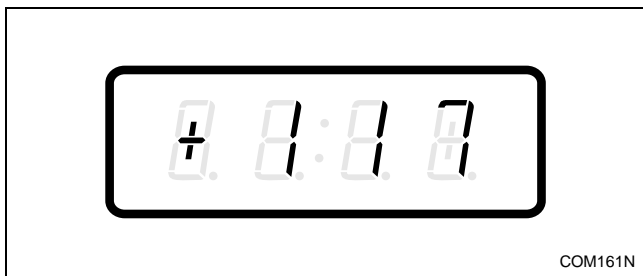
Figure 214

4. When "+117" appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Special Cycle Extra Rinse Extra Fill/ Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 215*.

NOTE: The Special Cycle Extra Rinse Extra Fill/ Agitate Time can be set from zero (0) to 15 minutes.

B029R
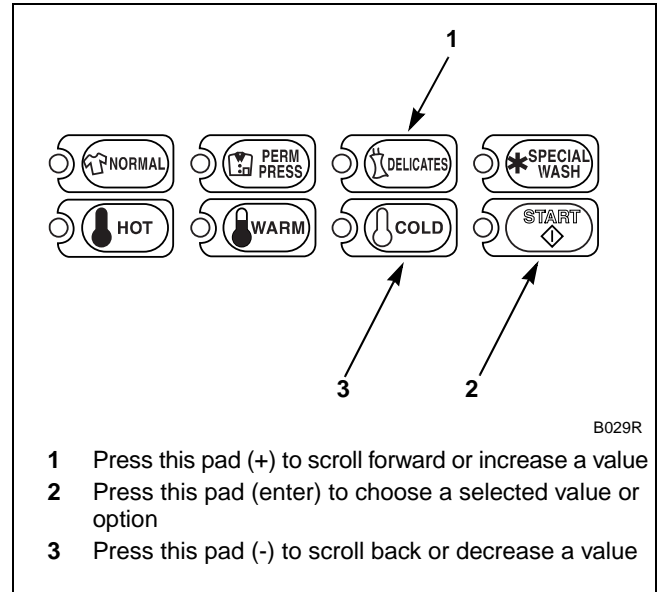
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 215

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, "+118", will appear in the VFD.

NOTE: The Special Cycle option needs to be turned on (refer to *option 115*) for the Special Cycle Extra Rinse Extra Fill/Agitate Time to take effect.

NOTE: To program "+118" (Auto-Flush Option), refer to *option 118* in *Programming NetMaster* in the Basic Programming Guide. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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122. Site Code #1 "+122"

This option allows the owner to program a site code to correspond with the Site Code #1 pricing. This allows different pricing for a specific site code.

How to Program Site Code #1

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
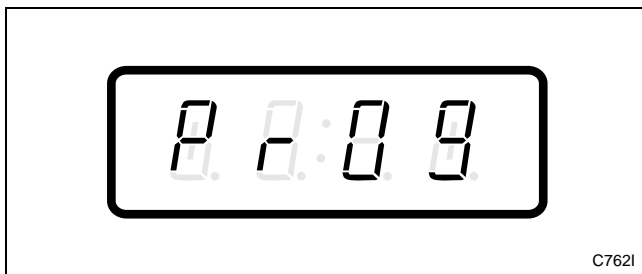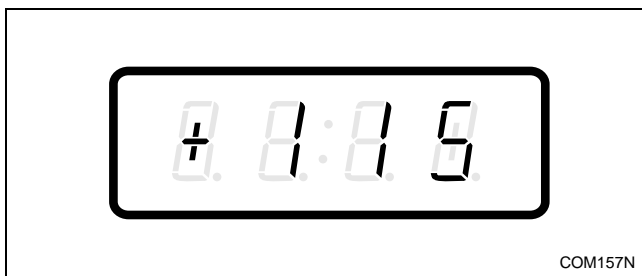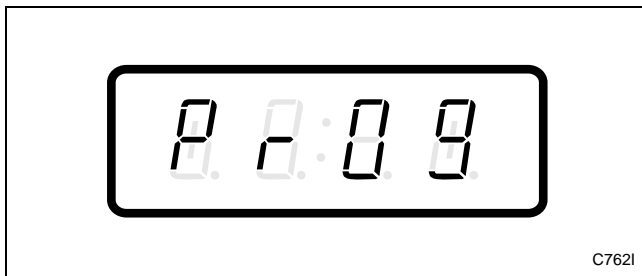

Figure 216

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+122" appears in the VFD. Refer to *Figure 217*.
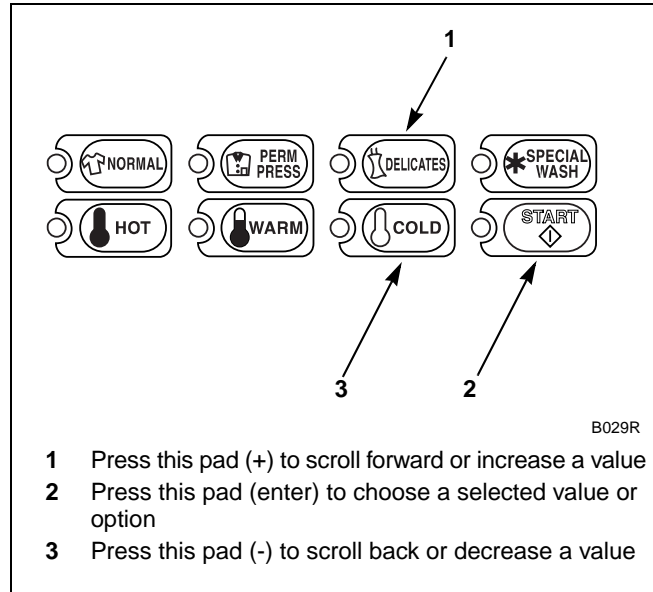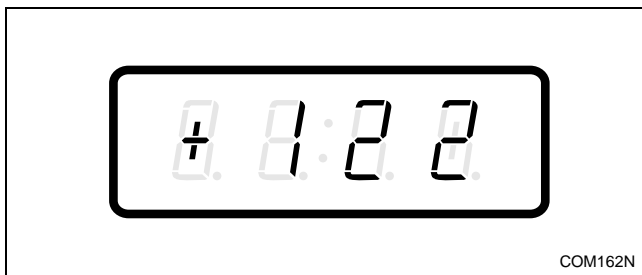

Figure 217

4. When "+122" appears in the VFD, press the START (enter) keypad. There are five digits in Site Code #1. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 218*.
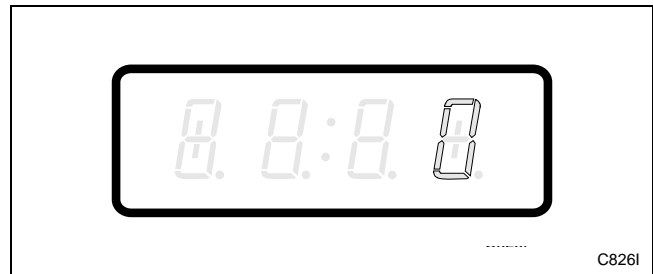
Figure 218

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 219*.
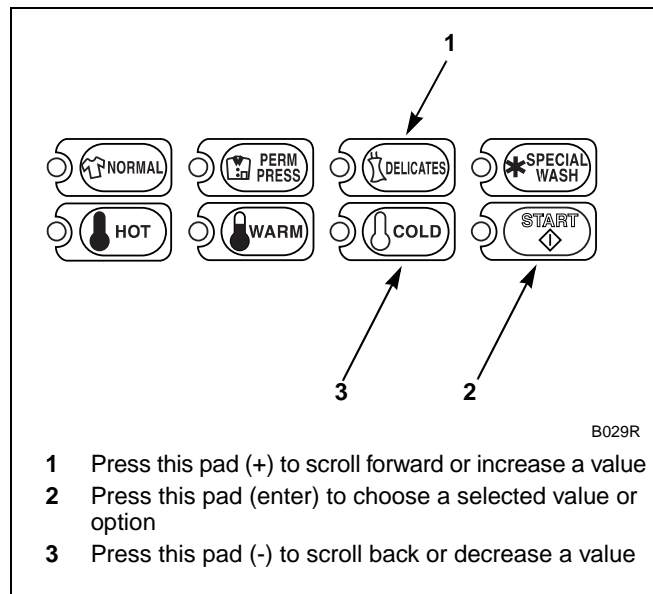
1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 219

6. Press the START (enter) keypad to enter the fifth digit and display remaining four digits. The active digit will flash one second on and one second off. Refer to *Figure 220*.
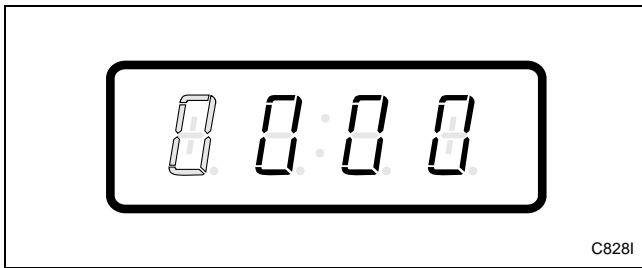
Figure 220

7. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the value of the active digit and the START (enter) keypad to enter the value of the digit and advance to the next digit.

8. Press the START (enter) keypad with the last active digit. The next option, "**+123**", will appear in the VFD.

NOTE: To program "+123" (Error Code Programming Parameter), refer to *option 123*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

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123. Error Code Programming Parameter "+123"

This option allows the owner to turn on or turn off certain errors in the control.

How to Program Error Code Programming Parameter

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
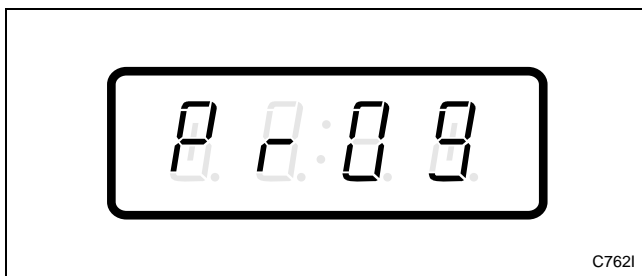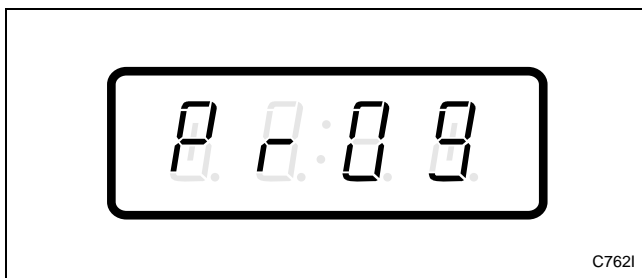

Figure 221

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+123" appears in the VFD. Refer to *Figure 222*.
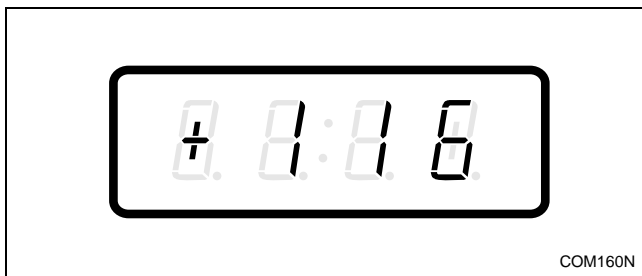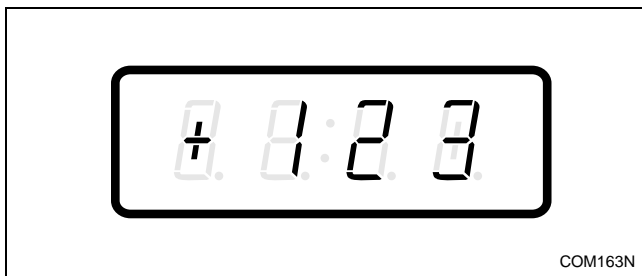

Figure 222

4. When "+123" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Error Code Programming Parameter Value.

5. Locate the desired number in the first column of *Table 42* on the following page.

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 223*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
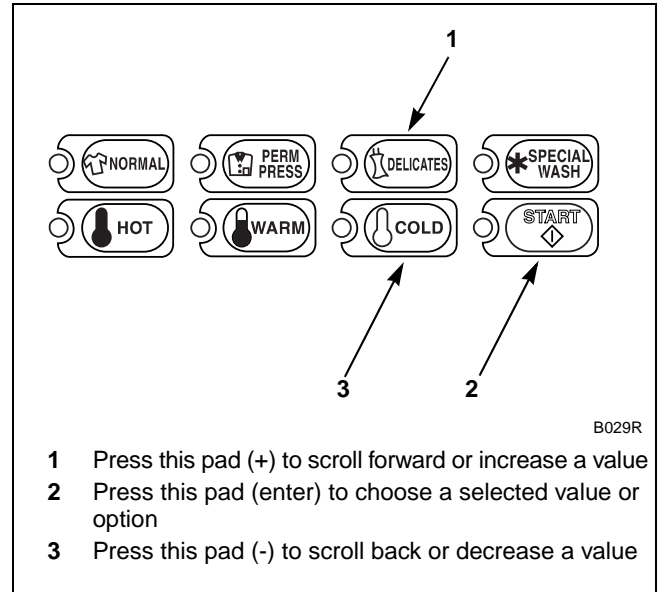3 Press this pad (-) to scroll back or decrease a value
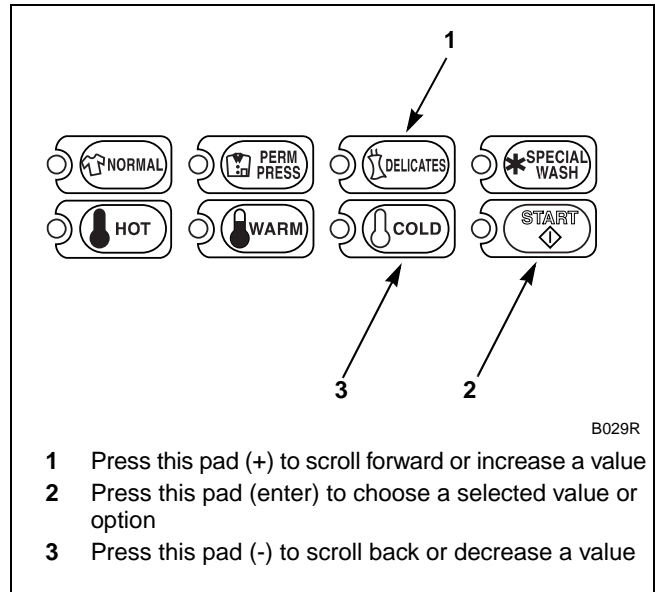
Figure 223

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, "+124", will appear in the VFD.

NOTE: To program "+124" (Start Pulse Mode), refer to *option 124*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.

Programming NetMaster

Reading *Table 42*

To determine correct error code value required, review table below. Read each row from left to right. Starting number of row indicates required special vend value number to be entered into electronic control.

Error code value number is followed by option columns. Option columns state whether an action is ON or OFF (ON indicates option is turned on, OFF indicates option is turned off).

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
000	OFF	OFF	OFF	OFF	OFF	OFF
001	OFF	OFF	OFF	OFF	OFF	**ON**
002	OFF	OFF	OFF	OFF	**ON**	OFF
003	OFF	OFF	OFF	OFF	**ON**	**ON**
004	OFF	OFF	OFF	**ON**	OFF	OFF
005	OFF	OFF	OFF	**ON**	OFF	**ON**
006	OFF	OFF	OFF	**ON**	**ON**	OFF
007	OFF	OFF	OFF	**ON**	**ON**	**ON**
008	OFF	OFF	**ON**	OFF	OFF	OFF
009	OFF	OFF	**ON**	OFF	OFF	**ON**
010	OFF	OFF	**ON**	OFF	**ON**	OFF
011	OFF	OFF	**ON**	OFF	**ON**	**ON**
012	OFF	OFF	**ON**	**ON**	OFF	OFF
013	OFF	OFF	**ON**	**ON**	OFF	**ON**
014	OFF	OFF	**ON**	**ON**	**ON**	OFF
015	OFF	OFF	**ON**	**ON**	**ON**	**ON**
016	OFF	OFF	OFF	OFF	OFF	OFF
017	OFF	OFF	OFF	OFF	OFF	**ON**
018	OFF	OFF	OFF	OFF	**ON**	OFF
019	OFF	OFF	OFF	OFF	**ON**	**ON**
020	OFF	OFF	OFF	**ON**	OFF	OFF
021	OFF	OFF	OFF	**ON**	OFF	**ON**
022	OFF	OFF	OFF	**ON**	**ON**	OFF
023	OFF	OFF	OFF	**ON**	**ON**	**ON**
024	OFF	OFF	**ON**	OFF	OFF	OFF
025	OFF	OFF	**ON**	OFF	OFF	**ON**
026	OFF	OFF	**ON**	OFF	**ON**	OFF
027	OFF	OFF	**ON**	OFF	**ON**	**ON**
028	OFF	OFF	**ON**	**ON**	OFF	OFF
029	OFF	OFF	**ON**	**ON**	OFF	**ON**
030	OFF	OFF	**ON**	**ON**	**ON**	OFF
031	OFF	OFF	**ON**	**ON**	**ON**	**ON**
032	OFF	**ON**	OFF	OFF	OFF	OFF
033	OFF	**ON**	OFF	OFF	OFF	**ON**

Table 42 (Continued)

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Table 42 (Continued)

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
034	OFF	**ON**	OFF	OFF	**ON**	OFF
035	OFF	**ON**	OFF	OFF	**ON**	**ON**
036	OFF	**ON**	OFF	**ON**	OFF	OFF
037	OFF	**ON**	OFF	**ON**	OFF	**ON**
038	OFF	**ON**	OFF	**ON**	**ON**	OFF
039	OFF	**ON**	OFF	**ON**	**ON**	**ON**
040	OFF	**ON**	**ON**	OFF	OFF	OFF
041	OFF	**ON**	**ON**	OFF	OFF	**ON**
042	OFF	**ON**	**ON**	OFF	**ON**	OFF
043	OFF	**ON**	**ON**	OFF	**ON**	**ON**
044	OFF	**ON**	**ON**	**ON**	OFF	OFF
045	OFF	**ON**	**ON**	**ON**	OFF	**ON**
046	OFF	**ON**	**ON**	**ON**	**ON**	OFF
047	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
048	OFF	**ON**	OFF	OFF	OFF	OFF
049	OFF	**ON**	OFF	OFF	OFF	**ON**
050	OFF	**ON**	OFF	OFF	**ON**	OFF
051	OFF	**ON**	OFF	OFF	**ON**	**ON**
052	OFF	**ON**	OFF	**ON**	OFF	OFF
053	OFF	**ON**	OFF	**ON**	OFF	**ON**
054	OFF	**ON**	OFF	**ON**	**ON**	OFF
055	OFF	**ON**	OFF	**ON**	**ON**	**ON**
056	OFF	**ON**	**ON**	OFF	OFF	OFF
057	OFF	**ON**	**ON**	OFF	OFF	**ON**
058	OFF	**ON**	**ON**	OFF	**ON**	OFF
059	OFF	**ON**	**ON**	OFF	**ON**	**ON**
060	OFF	**ON**	**ON**	**ON**	OFF	OFF
061	OFF	**ON**	**ON**	**ON**	OFF	**ON**
062	OFF	**ON**	**ON**	**ON**	**ON**	OFF
063	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
064	OFF	OFF	OFF	OFF	OFF	OFF
065	OFF	OFF	OFF	OFF	OFF	**ON**
066	OFF	OFF	OFF	OFF	**ON**	OFF
067	OFF	OFF	OFF	OFF	**ON**	**ON**
068	OFF	OFF	OFF	**ON**	OFF	OFF
069	OFF	OFF	OFF	**ON**	OFF	**ON**
070	OFF	OFF	OFF	**ON**	**ON**	OFF
071	OFF	OFF	OFF	**ON**	**ON**	**ON**

Table 42 (Continued)

Table 42 (Continued)

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
072	OFF	OFF	OFF	OFF	OFF	OFF
073	OFF	OFF	**ON**	OFF	OFF	**ON**
074	OFF	OFF	**ON**	OFF	**ON**	OFF
075	OFF	OFF	**ON**	OFF	**ON**	**ON**
076	OFF	OFF	**ON**	**ON**	OFF	OFF
077	OFF	OFF	**ON**	**ON**	OFF	**ON**
078	OFF	OFF	**ON**	**ON**	**ON**	OFF
079	OFF	OFF	**ON**	**ON**	**ON**	**ON**
080	OFF	OFF	OFF	OFF	OFF	OFF
081	OFF	OFF	OFF	OFF	OFF	**ON**
082	OFF	OFF	OFF	OFF	**ON**	OFF
083	OFF	OFF	OFF	OFF	**ON**	**ON**
084	OFF	OFF	OFF	**ON**	OFF	OFF
085	OFF	OFF	OFF	**ON**	OFF	**ON**
086	OFF	OFF	OFF	**ON**	**ON**	OFF
087	OFF	OFF	OFF	**ON**	**ON**	**ON**
088	OFF	OFF	**ON**	OFF	OFF	OFF
089	OFF	OFF	**ON**	OFF	OFF	**ON**
090	OFF	OFF	**ON**	OFF	**ON**	OFF
091	OFF	OFF	**ON**	OFF	**ON**	**ON**
092	OFF	OFF	**ON**	**ON**	OFF	OFF
093	OFF	OFF	**ON**	**ON**	OFF	**ON**
094	OFF	OFF	**ON**	**ON**	**ON**	OFF
095	OFF	OFF	**ON**	**ON**	**ON**	**ON**
096	OFF	**ON**	OFF	OFF	OFF	OFF
097	OFF	**ON**	OFF	OFF	OFF	**ON**
098	OFF	**ON**	OFF	OFF	**ON**	OFF
099	OFF	**ON**	OFF	OFF	**ON**	**ON**
100	OFF	**ON**	OFF	**ON**	OFF	OFF
101	OFF	**ON**	OFF	**ON**	OFF	**ON**
102	OFF	**ON**	OFF	**ON**	**ON**	OFF
103	OFF	**ON**	OFF	**ON**	**ON**	**ON**
104	OFF	**ON**	**ON**	OFF	OFF	OFF
105	OFF	**ON**	**ON**	OFF	OFF	**ON**
106	OFF	**ON**	**ON**	OFF	**ON**	OFF
107	OFF	**ON**	**ON**	OFF	**ON**	**ON**
108	OFF	**ON**	**ON**	**ON**	OFF	OFF
109	OFF	**ON**	**ON**	**ON**	OFF	**ON**

Table 42 (Continued)

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Table 42 (Continued)

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
110	OFF	**ON**	**ON**	**ON**	**ON**	OFF
111	OFF	**ON**	**ON**	**ON**	**ON**	**ON**
112	OFF	**ON**	OFF	OFF	OFF	OFF
113	OFF	**ON**	OFF	OFF	OFF	**ON**
114	OFF	**ON**	OFF	OFF	**ON**	OFF
115	OFF	**ON**	OFF	OFF	**ON**	**ON**
116	OFF	**ON**	OFF	**ON**	OFF	OFF
117	OFF	**ON**	OFF	**ON**	OFF	**ON**
118	OFF	**ON**	OFF	**ON**	**ON**	OFF
119	OFF	**ON**	OFF	**ON**	**ON**	**ON**
120	OFF	**ON**	**ON**	OFF	OFF	OFF
121	OFF	**ON**	**ON**	OFF	OFF	**ON**
122	OFF	**ON**	**ON**	OFF	**ON**	OFF
123	OFF	**ON**	**ON**	OFF	**ON**	**ON**
124	OFF	**ON**	**ON**	**ON**	OFF	OFF
125	OFF	**ON**	**ON**	**ON**	OFF	**ON**
126	OFF	**ON**	**ON**	**ON**	**ON**	OFF
127	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**
128	**ON**	OFF	OFF	OFF	OFF	OFF
129	**ON**	OFF	OFF	OFF	OFF	**ON**
130	**ON**	OFF	OFF	OFF	**ON**	OFF
131	**ON**	OFF	OFF	OFF	**ON**	**ON**
132	**ON**	OFF	OFF	**ON**	OFF	OFF
133	**ON**	OFF	OFF	**ON**	OFF	**ON**
134	**ON**	OFF	OFF	**ON**	**ON**	OFF
135	**ON**	OFF	OFF	**ON**	**ON**	**ON**
136	**ON**	OFF	**ON**	OFF	OFF	OFF
137	**ON**	OFF	**ON**	OFF	OFF	**ON**
138	**ON**	OFF	**ON**	OFF	**ON**	OFF
139	**ON**	OFF	**ON**	OFF	**ON**	**ON**
140	**ON**	OFF	**ON**	**ON**	OFF	OFF
141	**ON**	OFF	**ON**	**ON**	OFF	**ON**
142	**ON**	OFF	**ON**	**ON**	**ON**	OFF
143	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
144	**ON**	OFF	OFF	OFF	OFF	OFF
145	**ON**	OFF	OFF	OFF	OFF	**ON**
146	**ON**	OFF	OFF	OFF	**ON**	OFF
147	**ON**	OFF	OFF	OFF	**ON**	**ON**

Table 42 (Continued)

Table 42 (Continued)

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
148	**ON**	OFF	OFF	**ON**	OFF	OFF
149	**ON**	OFF	OFF	**ON**	OFF	**ON**
150	**ON**	OFF	OFF	**ON**	**ON**	OFF
151	**ON**	OFF	OFF	**ON**	**ON**	**ON**
152	**ON**	OFF	**ON**	OFF	OFF	OFF
153	**ON**	OFF	**ON**	OFF	OFF	**ON**
154	**ON**	OFF	**ON**	OFF	**ON**	OFF
155	**ON**	OFF	**ON**	OFF	**ON**	**ON**
156	**ON**	OFF	**ON**	**ON**	OFF	OFF
157	**ON**	OFF	**ON**	**ON**	OFF	**ON**
158	**ON**	OFF	**ON**	**ON**	**ON**	OFF
159	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
160	**ON**	**ON**	OFF	OFF	OFF	OFF
161	**ON**	**ON**	OFF	OFF	OFF	**ON**
162	**ON**	**ON**	OFF	OFF	**ON**	OFF
163	**ON**	**ON**	OFF	OFF	**ON**	**ON**
164	**ON**	**ON**	OFF	**ON**	OFF	OFF
165	**ON**	**ON**	OFF	**ON**	OFF	**ON**
166	**ON**	**ON**	OFF	**ON**	**ON**	OFF
167	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
168	**ON**	**ON**	**ON**	OFF	OFF	OFF
169	**ON**	**ON**	**ON**	OFF	OFF	**ON**
170	**ON**	**ON**	**ON**	OFF	**ON**	OFF
171	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
172	**ON**	**ON**	**ON**	**ON**	OFF	OFF
173	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
174	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
175	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**
176	**ON**	**ON**	OFF	OFF	OFF	OFF
177	**ON**	**ON**	OFF	OFF	OFF	**ON**
178	**ON**	**ON**	OFF	OFF	**ON**	OFF
179	**ON**	**ON**	OFF	OFF	**ON**	**ON**
180	**ON**	**ON**	OFF	**ON**	OFF	OFF
181	ON	ON	OFF	**ON**	OFF	**ON**
182	**ON**	**ON**	OFF	**ON**	**ON**	OFF
183	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
184	**ON**	**ON**	**ON**	OFF	OFF	OFF
185	**ON**	**ON**	**ON**	OFF	OFF	**ON**

Table 42 (Continued)

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Table 42 (Continued)

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
186	**ON**	**ON**	**ON**	OFF	**ON**	OFF
187	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
188	**ON**	**ON**	**ON**	**ON**	OFF	OFF
189	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
190	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
191	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**
192	**ON**	OFF	OFF	OFF	OFF	OFF
193	**ON**	OFF	OFF	OFF	OFF	**ON**
194	**ON**	OFF	OFF	OFF	**ON**	OFF
195	**ON**	OFF	OFF	OFF	**ON**	**ON**
196	**ON**	OFF	OFF	**ON**	OFF	OFF
197	**ON**	OFF	OFF	**ON**	OFF	**ON**
198	**ON**	OFF	OFF	**ON**	**ON**	OFF
199	**ON**	OFF	OFF	**ON**	**ON**	**ON**
200	**ON**	OFF	**ON**	OFF	OFF	OFF
201	**ON**	OFF	**ON**	OFF	OFF	**ON**
202	**ON**	OFF	**ON**	OFF	**ON**	OFF
203	**ON**	OFF	**ON**	OFF	**ON**	**ON**
204	**ON**	OFF	**ON**	**ON**	OFF	OFF
205	**ON**	OFF	**ON**	**ON**	OFF	**ON**
206	**ON**	OFF	**ON**	**ON**	**ON**	OFF
207	**ON**	OFF	**ON**	**ON**	**ON**	**ON**
208	**ON**	OFF	OFF	OFF	OFF	OFF
209	**ON**	OFF	OFF	OFF	OFF	**ON**
210	**ON**	OFF	OFF	OFF	**ON**	OFF
211	**ON**	OFF	OFF	OFF	**ON**	**ON**
212	**ON**	OFF	OFF	**ON**	OFF	OFF
213	**ON**	OFF	OFF	**ON**	OFF	**ON**
214	**ON**	OFF	OFF	**ON**	**ON**	OFF
215	**ON**	OFF	OFF	**ON**	**ON**	**ON**
216	**ON**	OFF	**ON**	OFF	OFF	OFF
217	**ON**	OFF	**ON**	OFF	OFF	**ON**
218	**ON**	OFF	**ON**	OFF	**ON**	OFF
219	**ON**	OFF	**ON**	OFF	**ON**	**ON**
220	**ON**	OFF	**ON**	**ON**	OFF	OFF
221	**ON**	OFF	**ON**	**ON**	OFF	**ON**
222	**ON**	OFF	**ON**	**ON**	**ON**	OFF
223	**ON**	OFF	**ON**	**ON**	**ON**	**ON**

Table 42 (Continued)

Table 42 (Continued)

Error Code Value	Motor Fail Error	Heater Error	Drain Error	Fill Error	Pressure Switch Seq. Error	Coin Error
224	**ON**	**ON**	OFF	OFF	OFF	OFF
225	**ON**	**ON**	OFF	OFF	OFF	**ON**
226	**ON**	**ON**	OFF	OFF	**ON**	OFF
227	**ON**	**ON**	OFF	OFF	**ON**	**ON**
228	**ON**	**ON**	OFF	**ON**	OFF	OFF
229	**ON**	**ON**	OFF	**ON**	OFF	**ON**
230	**ON**	**ON**	OFF	**ON**	**ON**	OFF
231	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
232	**ON**	**ON**	**ON**	OFF	OFF	OFF
233	**ON**	**ON**	**ON**	OFF	OFF	**ON**
234	**ON**	**ON**	**ON**	OFF	**ON**	OFF
235	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
236	**ON**	**ON**	**ON**	**ON**	OFF	OFF
237	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
238	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
239	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**
240	**ON**	**ON**	OFF	OFF	OFF	OFF
241	**ON**	**ON**	OFF	OFF	OFF	**ON**
242	**ON**	**ON**	OFF	OFF	**ON**	OFF
243	**ON**	**ON**	OFF	OFF	**ON**	**ON**
244	**ON**	**ON**	OFF	**ON**	OFF	OFF
245	**ON**	**ON**	OFF	**ON**	OFF	**ON**
246	**ON**	**ON**	OFF	**ON**	**ON**	OFF
247	**ON**	**ON**	OFF	**ON**	**ON**	**ON**
248	**ON**	**ON**	**ON**	OFF	OFF	OFF
249	**ON**	**ON**	**ON**	OFF	OFF	**ON**
250	**ON**	**ON**	**ON**	OFF	**ON**	OFF
251	**ON**	**ON**	**ON**	OFF	**ON**	**ON**
252	**ON**	**ON**	**ON**	**ON**	OFF	OFF
253	**ON**	**ON**	**ON**	**ON**	OFF	**ON**
254	**ON**	**ON**	**ON**	**ON**	**ON**	OFF
255	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**

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124. Start Pulse Mode "+124"

This option allows the owner to program the Start Pulse Input. The Start Pulse Mode can be used for after-market central pay or card systems. The central system sends the start pulse to the Start Pulse Input of the control to start the cycle. If set for single pulse, one start pulse from the central system will start the cycle. If set for multiple pulses, each pulse will deduct from the Vend Price the value set up in *option 32*, (**Start Pulse Value**), until the Vend is satisfied.

How to Program Start Pulse Mode

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.

2. Press the DELICATES (+) or the COLD (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.
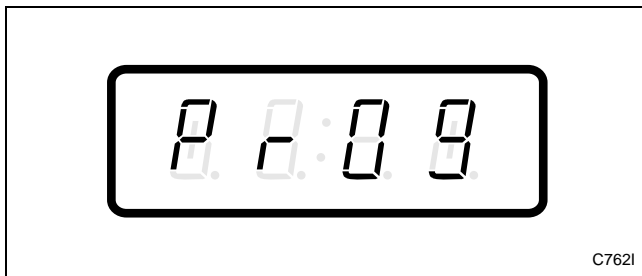

Figure 224

3. Press the DELICATES (+) or the COLD (-) keypad to scroll through the programmable options until "+124" appears in the VFD. Refer to *Figure 225*.
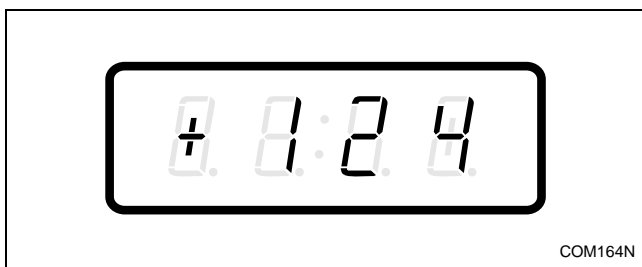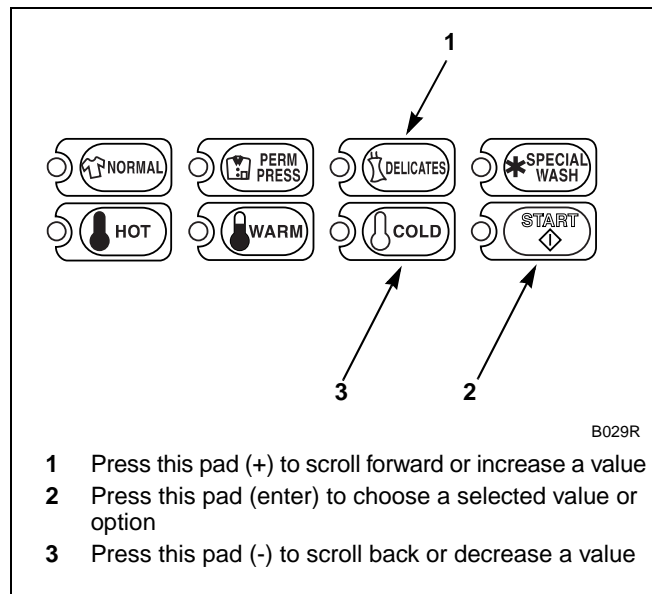

Figure 225

4. When "+124" appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Start Pulse Mode Programming Value.

5. Locate the desired number in the first column of *Table 43* below.

"+124"		
Start Pulse Mode Value	Start Pulse ON/OFF	Single Pulse/ Multiple Pulses
0	OFF	Single Pulse
64	OFF	Multiple Pulses
128	**ON**	Single Pulse
192	**ON**	Multiple Pulses

Table 43

6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number until correct. Refer to *Figure 226*.

1 Press this pad (+) to scroll forward or increase a value
2 Press this pad (enter) to choose a selected value or option
3 Press this pad (-) to scroll back or decrease a value

Figure 226

7. Press the START (enter) keypad when the correct number appears in the VFD.

NOTE: To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.

2. While pressing and holding the NORMAL keypad with one hand, press the PERM PRESS keypad with the other hand. The control will revert back to the Ready Mode.