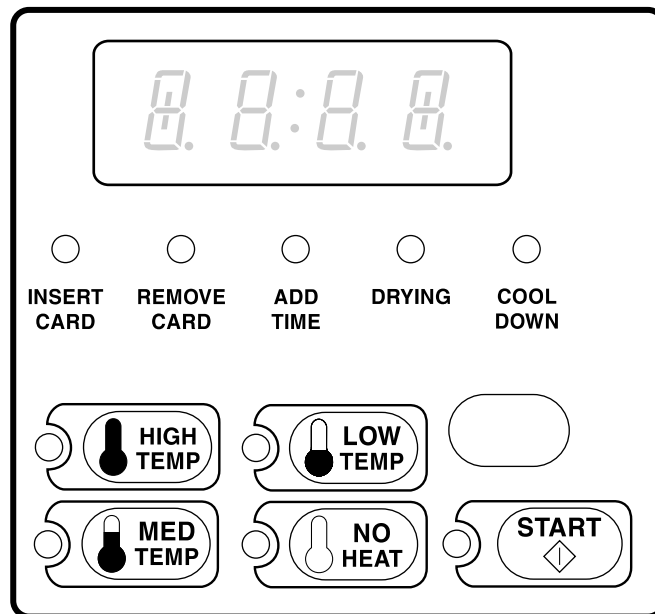


# NetMaster

## Drying Tumblers

Refer to page 5 for Model Numbers



C8411

**Keep These Instructions for Future Reference.**

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





## WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030

**NOTE: The WARNING 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 tumblers. These factors MUST BE supplied by the person(s) installing, maintaining, or operating the tumbler.**

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

# Table of Contents

<b>Model Identification</b> .....	5
<b>Preliminary Information</b> .....	6
About the Control .....	6
Glossary of Terms.....	6
Power Failure Recovery .....	6
Communications .....	6
<b>NetMaster Identification</b> .....	8
SELECT CYCLE Pads .....	8
START Pad.....	8
<b>VFD Display Identification</b> .....	9
Light Emitting Diodes (LEDs) .....	9
<b>Tumbler Operation</b> .....	10
Start Up.....	10
Ready Mode.....	10
Entering Coins .....	11
Entering Cards .....	11
Changing Active Cycles .....	11
Opening the Loading Door .....	12
Signals.....	12
<b>NetMaster Special Features</b> .....	13
Programming NetMaster .....	13
Collecting Audit Information .....	13
Testing Machine and NetMaster Functions.....	13
Sales Floor Feature .....	13
Rapid Advance Feature.....	13
Clear the NetMaster Vend Feature .....	13
Communications Mode.....	13
Dual Coin Drop.....	13
Start Pulse Operation .....	14
Service Door and Coin Vault Openings .....	14
Break-In Alarm.....	14
OPL Mode .....	14
Special Vend.....	14
Lucky Cycle.....	14
Site Code Pricing .....	14
<b>Removing the Controls</b> .....	15
Stack Tumbler.....	15
Single Tumbler .....	15
<b>Entering the Manual Mode</b> .....	16
How to Enter the Manual Mode .....	16
<b>Programming NetMaster</b> .....	17
What Can Be Programmed? .....	17
Programmable Options Available.....	17
1. Audio Signal +001 .....	18
2. Heat Vend Price +002 .....	20
3. No Heat Vend Price +003 .....	22

© Copyright 2008, Alliance Laundry Systems LLC

All rights reserved. No part of the contents of this book may be reproduced or transmitted in any form or by any means without the expressed written consent of the publisher.

4. Card TopOff Price +004 .....	24
5. Site Code #1 Heat Vend Price +005 .....	26
6. Site Code #1 No Heat Vend Price +006 .....	28
7. Special Vend A On/Off, A Day(s) of Week +007 .....	30
8. Special Vend A Start Hour +008 .....	35
9. Special Vend A Length of Time +009 .....	36
10. Special Vend A Start Month +010 .....	37
11. Special Vend A Start Date +011 .....	38
12. Special Vend A End Month +012 .....	39
13. Special Vend A End Date +013 .....	40
14. Special Vend A Site Code #1 +014 .....	41
15. Special Vend A Heat Price +015 .....	43
16. Special Vend A Heat Time Minutes +016 .....	45
17. Special Vend A Heat Time Seconds +017 .....	46
18. Special Vend A No Heat Price +018 .....	47
19. Special Vend A No Heat Time Minutes +019 .....	49
20. Special Vend A No Heat Time Seconds +020 .....	50
21. Special Vend A Coin #1 TopOff Minutes +021 .....	51
22. Special Vend A Coin #1 TopOff Seconds +022 .....	52
23. Special Vend A Coin #2 TopOff Minutes +023 .....	53
24. Special Vend A Coin #2 TopOff Seconds +024 .....	54
25. Special Vend A Auto-Shutdown Enable +025 .....	55
26. Coin #1 Amount +026 .....	56
27. Coin #2 Amount +027 .....	58
28. Start Pulse Value +028 .....	60
29. Power Fail Reset +029 .....	62
30. Default Cycle +030 .....	64
31. Set Real-Time Clock Minutes +031 .....	66
32. Set Real-Time Clock Hours +032 .....	67
33. Set Real-Time Clock Day +033 .....	68
34. Set Real-Time Clock Date +034 .....	69
35. Set Real-Time Clock Month +035 .....	70
36. Set Real-Time Clock Year +036 .....	71
37. Set Real-Time Clock Century +037 .....	72
38. Heat Cycle Time Minutes +038 .....	73
39. Heat Cycle Time Seconds +039 .....	74
40. No Heat Cycle Time Minutes +040 .....	75
41. No Heat Cycle Time Seconds +041 .....	76
42. High Temp Cool Down Time +042 .....	77
43. Medium Temp Cool Down Time +043 .....	78
44. Low Temp Cool Down Time +044 .....	79
45. Coin #1 TopOff Time (Minutes Per Coin) +045 .....	80
46. Coin #1 TopOff Time (Seconds Per Coin) +046 .....	81
47. Coin #2 TopOff Time (Minutes Per Coin) +047 .....	82
48. Coin #2 TopOff Time (Seconds Per Coin) +048 .....	83
49. Card TopOff Minutes +049 .....	84
50. Card TopOff Seconds +050 .....	85
51. Coin #1 Bonus Time (Minutes Per Coin) +051 .....	86
52. Coin #1 Bonus Time (Seconds Per Coin) +052 .....	87
53. Coin #2 Bonus Time (Minutes Per Coin) +053 .....	88
54. Coin #2 Bonus Time (Seconds Per Coin) +054 .....	89
55. Configuration #1 +055 .....	90
56. Configuration #2 +056 .....	93
57. Configuration #3 +057 .....	96
58. High Temperature +058 .....	98
59. Medium Temperature +059 .....	99
60. Low Temperature +060 .....	100

61. Lucky Option +061 .....	101
62. Smart Card Maximum Value +062 .....	102
63. Site Code #1 +063 .....	104
64. Error Code Programming Parameter +064 .....	106
65. Start Pulse Mode +065 .....	108
<b>Collecting Audit Information .....</b>	<b>109</b>
<b>Manual Reset.....</b>	<b>110</b>
<b>Testing Machine and NetMaster Functions .....</b>	<b>111</b>
Diagnostic Test Descriptions .....	112
<b>Sales Floor Feature .....</b>	<b>114</b>
<b>Rapid Advance Feature.....</b>	<b>114</b>
<b>Error Codes .....</b>	<b>115</b>
<b>Clear Vend Feature .....</b>	<b>117</b>
<b>Power Fail Recovery .....</b>	<b>117</b>
<b>Communications Mode .....</b>	<b>118</b>
<b>Default Tumbler Settings.....</b>	<b>119</b>

# Model Identification

Information in this manual is applicable to these models:

	Gas		Steam		Electric	
<b>25 Pound</b>	HT025L HT025N JT0220SRG SA025L SA025N	SC0220SRG ST0220SRG ST025L ST025N	JT0220SSH JT0220SSL SC0220SSL	ST0220SSH ST0220SSL ST025S	JT0220SEL SC0220SEL	ST0220SEL ST025E
<b>30 Pound</b>	HT030L HT030N JT0270SRG SA030L SA030N	SC0270SRG ST0270SRG ST030L ST030N	JT0270SSH JT0270SSL SC0270SSL	ST0270SSH ST0270SSL ST030S	JT0270SEL SC0270SEL	ST0270SEL ST030E
<b>30 Pound Stack</b>	HTT30L HTT30N JT0300DRG NT0300DRG SAT30L	SAT30N SC0300DRG ST0300DRG STT30L STT30N	JT0300DSH JT0300DSL SC0300DSL	ST0300DSH ST0300DSL STT30S	JT0300DEL SC0300DEL	ST0300DEL STT30E
<b>35 Pound</b>	HT035L HT035N JT0350SRG SA035L SA035N	SC0350SRG ST0350SRG ST035L ST035N	JT0350SSH JT0350SSL SC0350SSL	ST0350SSH ST0350SSL ST035S	JT0350SEL SC0350SEL	ST0350SEL ST035E
<b>45 Pound Stack</b>	STT45L STT45N		Not Applicable		Not Applicable	
<b>50 Pound</b>	HA050L HA050N HT050L HT050N JTB50CG	SA050L SA050N ST050L ST050N STB50CG	ST050S		ST050E	
<b>75 Pound</b>	HA075L HA075N HT075L HT075N JTB75CG	SA075L SA075N ST075L ST075N STB75CG	ST075S		ST075E	

Includes models with the following control suffixes:

- |                           |                                   |
|---------------------------|-----------------------------------|
| NC – NetMaster coin       | ZC – NetMaster coin network       |
| NR – NetMaster card       | ZR – NetMaster card network       |
| NX – NetMaster coin ready | ZX – NetMaster coin ready network |
| NY – NetMaster card ready | ZY – NetMaster card ready network |

# Preliminary Information

## About the Control

NetMaster on the tumbler is an advanced, programmable computer that lets the owner control most machine features by pressing sequences of Select Cycle pads. Refer to *Figure 1*.

NetMaster allows the owner to program custom cycles, set vend prices, retrieve audit information, program and run diagnostic cycles, and program special vend features. Tumblers shipped from the factory have a default cycle (MED TEMP) built in. However, the owner can change the default cycle, or any cycle, as needs permit.

**IMPORTANT: In the event of a power failure, NetMaster will not have to be reprogrammed. It is designed with a memory system that will remember how it was programmed (for up to six years) until the electrical power is restored.**

**IMPORTANT: It is extremely important that the tumbler has a positive ground and that all mechanical and electrical connections to NetMaster are made before applying power to or operating the tumbler.**

## Glossary of Terms

The following are a few terms and abbreviations to learn. These are referred to throughout the manual:

VFD - Vacuum Fluorescent Display.  
This term refers to the window area of the control that displays words and values.

LED - Light Emitting Diode.  
This term refers to the lights on the keypads and status words of the control.

## Power Failure Recovery

If power fails during an active cycle, the cycle status is saved in memory for a minimum of six years without power. When power is restored, the tumbler may resume the previously active cycle (if programmed by the owner) by pressing the START pad.

The owner may program a special feature called Power Fail Reset which sets a maximum time after which the cycle that was suspended by the power failure may be resumed when power is restored. To program this feature, refer to *Power Fail Reset*.

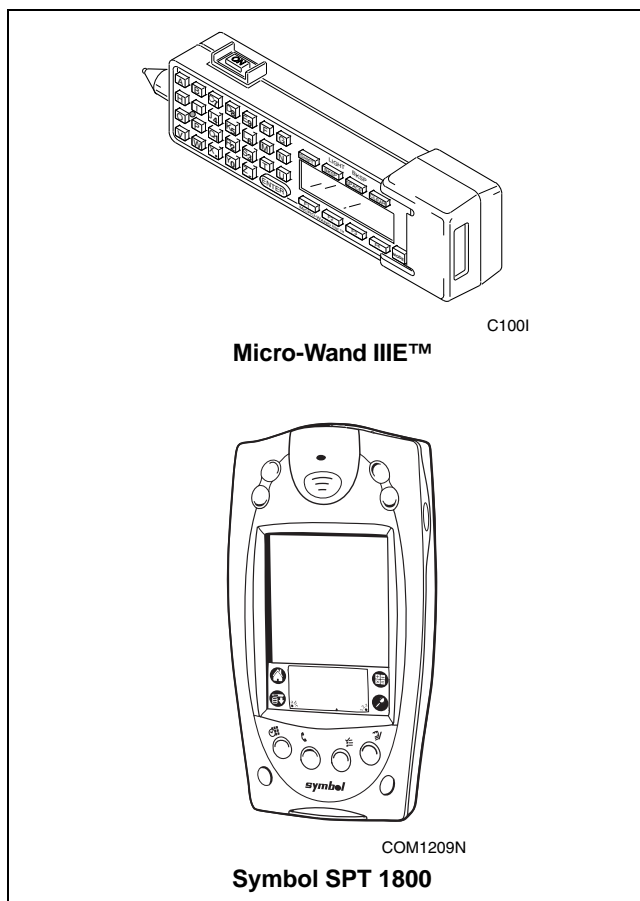
If the length of the power failure is greater than the Power Fail Reset time, the tumbler will revert back to the Ready Mode rather than resume the previously active cycle. If the length of the power failure is less than the Power Fail Reset time and the power failure is greater than 2 seconds, or the Power Fail Reset is turned off, the tumbler will enter the START mode

(START pad flashes) indicating that the user may press the START pad to resume the cycle.

The Power Fail Reset may be set between 5 and 127 minutes. The factory default setting is 5 minutes and is turned off.

## Communications

NetMaster may be programmed manually by the Micro-Wand IIIETM, a Symbol SPT 1800 Palm device with an Infra-red Interface Box, a Network, or a Smart Card.



## Infra-red Communications (Optional)

The Micro-Wand IIIETM allows the owner to program and retrieve information from NetMaster without touching the keypad. The Micro-Wand greatly expands the programming options available to the owner. However, the Micro-Wand is not required to program and operate the tumbler. The operation of the Micro-Wand and the advanced features available are covered separately in the Micro-Wand IIIETM instruction manual.



### **Smart Card Reader Communications (Card Models Only)**

The control will accept communication with a Card Reader in order to perform vending transactions when a card is inserted to pay for cycles. The card reader can also allow the owner to program and collect audit information.

For detailed information on Smart Card Reader Communications, refer to the Smart Card setup module in the NetMaster Smart Card Suite software package.

### **Network Communications**

The control will also accept communication with a Network Interface Board which allows the control to be linked to a personal computer. This network link allows an owner to program, collect data and run diagnostics on any machine.

For detailed information on Network Communications, refer to the Network instruction manual.

# NetMaster Identification

## Select Cycle Pads

Refer to *Figure 1*.

Select Cycle pads are used to select the specific tumbler cycle and temperature. These pads include HIGH TEMP, MED TEMP, LOW TEMP, and NO HEAT. The selection of one of these cycles will light up the corresponding LED. The factory default cycle is MED TEMP.

## START Pad

Refer to *Figure 1*.

The START pad is used to start the tumbler after the full vend price has been satisfied and the loading door is closed.

Both the START pad and the Select Cycle pads are used in various combinations for programming cycles, retrieving audit information and running diagnostic tests as described in *Entering the Manual Mode*. During an active cycle (card reader equipped machines or when in OPL mode only), the START pad may be pressed (with a card inserted) to add time to a cycle.

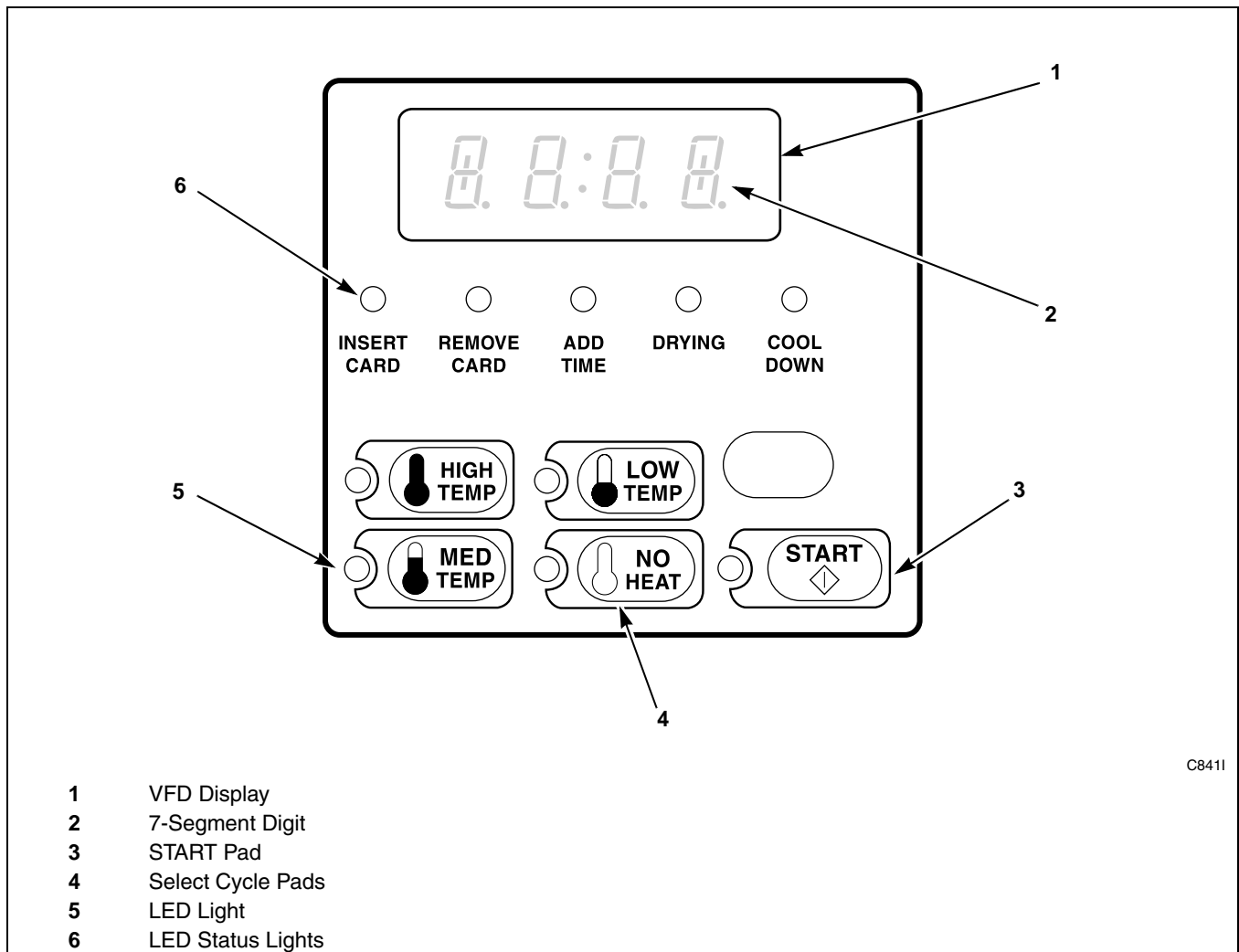


Figure 1

# VFD Display Identification

## Light Emitting Diodes (LEDs)

Refer to *Figure 1*.

Light Emitting Diodes (LEDs) are used to indicate the chosen temperature and cycle status. See below for information on each LED.

### INSERT COINS/CARD LED

The INSERT COINS/CARD LED is lit to prompt the user to insert coins or a card to satisfy the vend price for the chosen cycle. The LED is lit during the “Ready” mode. During Partial and Additional Vend, the LED flashes one second on and one second off. The INSERT COINS/CARD LED will shut off when the vend price has been satisfied.

### START LED

The START pad LED flashes whenever the tumbler is not in a cycle, the full vend price has been satisfied, and the loading door is closed. When the START pad is pressed, the cycle will begin or resume. The START LED will shut off when the START pad is pressed. The START LED will also flash any time a card is inserted to add time to the current cycle.

### DRYING LED

The DRYING LED is lit to indicate that one of the heated cycles (HIGH TEMP, MED TEMP, LOW TEMP) is currently in operation. The DRYING LED goes off at the end of a heated cycle, if the heated cycle is changed to a NO HEAT cycle or when the COOL DOWN cycle begins.

### COOL DOWN LED

The COOL DOWN LED is lit whenever the COOL DOWN portion of a heated cycle is active. It is also lit when the NO HEAT cycle is in operation. The COOL DOWN LED will shut off when a cycle ends or more time is added, pushing the cycle back into the heated portion of a cycle.

### ADD TIME LED (Card Models Only)

The ADD TIME LED flashes alternately with the REMOVE CARD LED when a card is inserted while a cycle is running or when a card is left in the reader.

### REMOVE CARD LED (Card Models Only)

The REMOVE CARD LED flashes one second on and one second off when a card is inserted or left in the reader after a transaction is complete. The REMOVE CARD LED will also flash alternately with the ADD TIME LED when a card is inserted while a cycle is running or when a card is left in the reader.

### Four 7-Segment Digits

The 7-Segment Digits are used to display the time remaining in a cycle, vend price, error messages and descriptive codes. When displaying the time remaining, the colon will flash. When displaying the vend price, the decimal point may be lit. During diagnostic testing or manual programming of the control, these digits will display descriptive codes and values. Refer to *Entering the Manual Mode*.

# Tumbler Operation

## Start Up

When power is applied to the tumbler, NetMaster becomes active and lights the default cycle LED (MED TEMP). In addition, the VFD will display the vend price of the default cycle and the INSERT COINS/CARD LED will be lit. This is referred to as the Ready Mode. Refer to *Figure 2*.

The customer may select a different cycle if desired. The VFD display will show the current vend price for each cycle chosen. A customer may select the cycle before entering coins. The vending transaction may be satisfied by adding coins, inserting a card, or by receiving a start pulse from a central pay point.

## Ready Mode

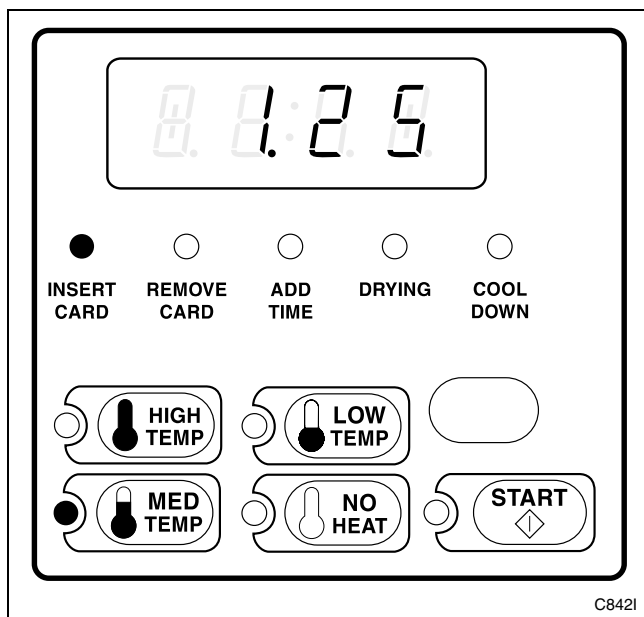


Figure 2

If a coin drop is used, coins are entered into the machine and the vend price remaining to be satisfied gets smaller. Once the full vend price is satisfied, the INSERT COINS LED is turned off and the START LED will begin to flash.

When a card reader is used, the INSERT CARD LED is lit until a card is inserted into the reader. The VFD will display “bAL” followed by the balance of the card. Next, the VFD will display the vend price, and the START pad will flash.

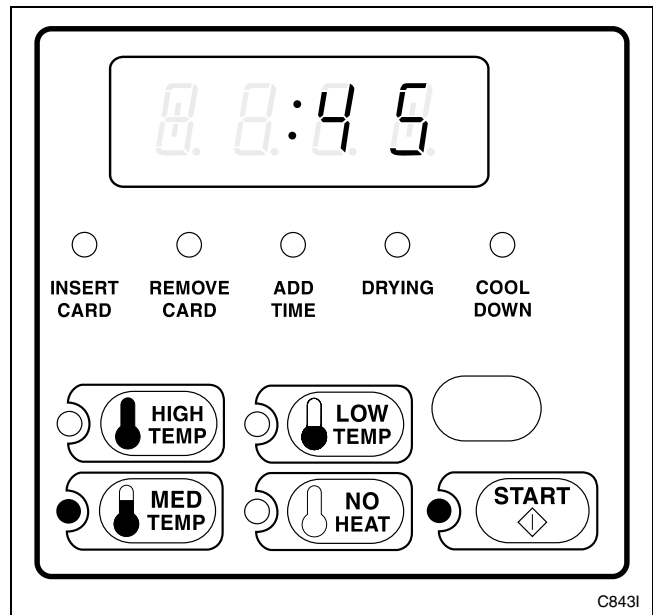


Figure 3

After the START pad is pushed, the control will start the tumbler.

If a coin drop is used, the START LED will turn off and the DRYING LED or COOL DOWN LED will be lit after the START pad is pressed. The VFD will display the cycle time counting down.

If a card reader is used, the VFD will display “WAIT” for 2-3 seconds after the START pad is pressed. The START LED will turn off and the REMOVE CARD LED will be lit. The VFD will display the cycle time counting down. When the card is removed, the REMOVE CARD LED will turn off. The VFD will display “bAL” followed by the card balance. The VFD will then display the cycle time counting down.

The DRYING LED will remain lit until the COOL DOWN cycle begins. When the COOL DOWN cycle begins, the COOL DOWN LED is lit, the DRYING LED is turned off, and the heater is turned off.

When a cycle is complete, a signal will sound for three seconds (if selected). Tumblers shipped from the factory have the signal turned off. The signal (if selected) will sound at the end of each cycle, when Select Cycle pads are pushed, when coins or cards are entered, or when the REMOVE CARD LED is flashing. Each of these signals can be turned on or off separately (refer to *Audio Signal +001*, to program signal options).

When a cycle is complete, the VFD will display “:00” until the door is opened, a key is pressed, or a coin or card is entered. Refer to *Figure 4*. When the door is opened, the VFD display will revert back to the Ready Mode. Refer to *Figure 2*.

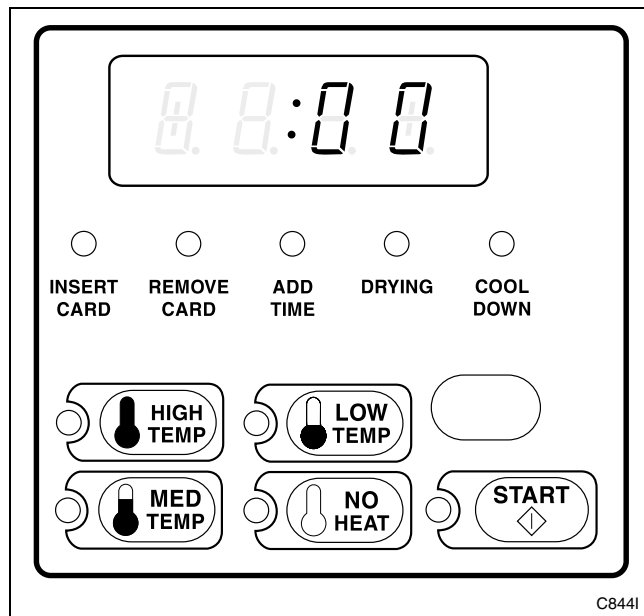


Figure 4

## Entering Coins

Coins are entered to satisfy the programmed vend price for a selected cycle. Coins may be entered before selecting a cycle or during an active cycle. When coins are entered during an active cycle, the time remaining is increased by the amount programmed by the owner. Refer to *Programming NetMaster* section.

The owner may choose to add additional time for each coin entered, may require an additional full vend price to add time once a cycle has begun, or may award bonus times for each coin entered. If coins are entered to an active heated cycle currently in the COOL DOWN mode, more than one coin may be required to push the cycle back into the DRYING mode. The maximum time for any cycle is 99 minutes.

## Entering Cards

A card is entered to satisfy the programmed vend price for a selected cycle. The card may be entered before selecting a cycle or during an active cycle. When the card is entered during an active cycle and the START pad is pressed, the time remaining is increased by the amount programmed by the owner. Refer to *Programming NetMaster* section.

The owner may choose to add additional time by deducting a vend from the card or may require an additional full vend price be deducted from the card. If vend is deducted during an active heated cycle that is currently in the COOL DOWN mode, the additional time added may put the cycle back into the heated mode. The maximum time for any cycle is 99 minutes. Additional time cannot be added if it exceeds the 99 minute limit on a drying cycle and the REMOVE CARD LED will flash on and off every second.

## Changing Active Cycles

An active cycle may be changed at any time during tumbler operation. However, changing from one cycle to another may require additional vend. If a newly selected cycle requires additional vend, the additional vend must be entered within 60 seconds of selecting the new cycle. If the vend price is not satisfied within that time, the tumbler will go back to the original cycle and the time remaining will be increased by the amount of any vend that was entered.

Changing between heated cycles is allowed at any time during the active DRYING portion of a heated cycle. However, if the vend price is greater for a heated cycle than a NO HEAT cycle, changing to a heated cycle from a NO HEAT cycle is only allowed during the first 5 and the final 5 minutes of the cycle. In this case, the cycle will require additional vend.

During the first 5 minutes, if the vend price is greater, additional vend is required. If cycle times differ between the two cycles, the time will be adjusted. During the last 5 minutes, changes can be made regardless of vend prices. No adjustments will be made to cycle time.

## Opening the Loading Door

Opening the loading door in a running cycle will automatically stop the cycle. When the loading door is opened, the DRYING LED or COOL DOWN LED is turned off.

**NOTE: When the door is opened during an active cycle, the time will continue to count down and the VFD will display “dOOR” for five seconds on and off. Refer to Figure 5.**

Once the loading door is closed, the START pad LED flashes at one-second intervals until the START pad is pushed. Pressing the start pad will start or resume the active cycle.

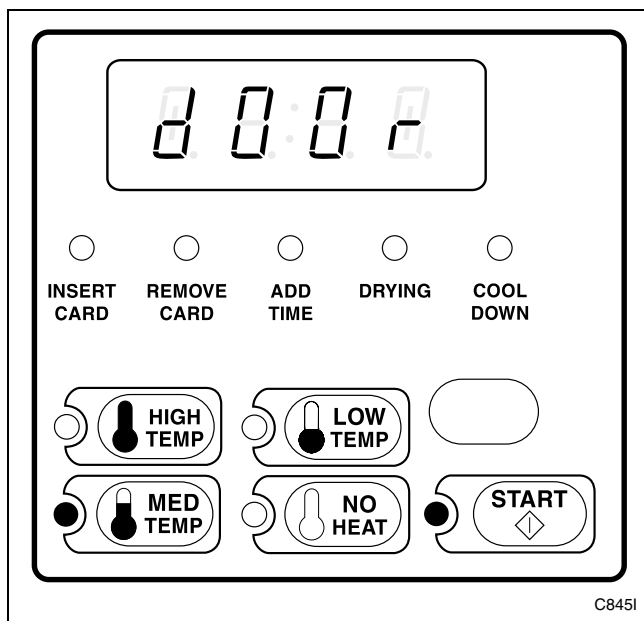


Figure 5

## Signals

There are four options where a signal may sound during the tumbler operation. The owner may program when the signals will sound. These four options are listed below:

- 1. End of Cycle Signal**  
By default, this signal is turned off. If enabled, the signal will sound for three (3) seconds at the end of a cycle.
- 2. Keypad Depression Signal**  
By default, this signal is turned on and will sound for .25 seconds. The signal will sound each time a keypad is pressed.
- 3. Coin/Card Input Signal**  
By default, this signal is turned on and will sound for .25 seconds each time a coin or card is entered.
- 4. Remove Card Signal (Card Models Only)**  
By default, this signal is turned on and will sound one second on and one second off when the REMOVE CARD LED flashes.

**NOTE: Refer to Audio Signal +001 to program signal options.**

# NetMaster Special Features

## Programming NetMaster

NetMaster allows the tumbler owner to program special features with the use of the keypad. Audit, diagnostic, cycle and vend information may be programmed and retrieved by pressing keypad combinations.

For details on programming cycle and vend information, refer to *Programming NetMaster*.

## Collecting Audit Information

With NetMaster, the tumbler owner is able to access valuable audit information by using the Micro-Wand IIIIE, the Network, the Card Reader, or in manual mode. Netmaster will record and display coin vault openings, coins entered, service door openings, total tumbler cycles, total NO HEAT cycles, special vend options, power failures, downloads, and others.

For detailed information on audit features, refer to *Collecting Audit Information*.

**NOTE: Additional audit information is retrievable with the Micro-Wand IIIIE, the Card Reader or the Network. Refer to the appropriate instruction manual.**

## Testing Machine and NetMaster Functions

Special programmable diagnostic features built into NetMaster allow the owner to test specific information with the tumbler in the Ready Mode. By opening and closing the service door and then pressing various sequences of keypads, the owner may perform the following tests:

- Tumbler Software Version
- Service Door Opening Test
- Coin Vault Opening Test
- Coin Drop #1 Test
- Coin Drop #2 Test
- Start Pulse Test
- Tumbler-On Temperature Test
- Thermistor Temperature Test
- Machine Configuration Display
- Real-Time Clock Day Test
- Real-Time Clock Hour Test
- Machine Config #1 Display
- Machine Config #2 Display
- Machine Config #3 Display

For detailed information on running diagnostic tests, refer to *Testing Machine and NetMaster Functions*.

## Sales Floor Feature

The NetMaster tumbler has a built-in sales floor feature used to display all the LED lights, the status words, and the four digits with the colon and decimal point. This function is designed to show potential customers the high-tech features of NetMaster and to verify that all segments of the VFD work.

For detailed information on using the Sales Floor feature, refer to *Sales Floor Feature*.

## Rapid Advance Feature

This feature allows the user to quickly advance through an active tumbler cycle or advance into a cycle from the Ready Mode. This feature is useful when tests must be performed immediately on a tumbler in an active cycle. In this case, the user can quickly advance the cycle to the end, perform the required tests, and return the tumbler to the active cycle.

For detailed information on using the Rapid Advance feature, refer to *Rapid Advance Feature*.

## Clear the NetMaster Vend Feature

This feature allows the user to return NetMaster back to Ready Mode if coins or a card have been entered but the full vend price has not been satisfied. Refer to *Figure 2*.

For more information on using the Clear Vend feature, refer to *Clear Vend Feature*.

## Communications Mode

This feature allows the tumbler control to communicate with the Micro-Wand IIIIE, the Smart Card Reader, or the Network Interface Board. This allows the tumbler control to be programmed and have its data read without using the keypad.

For more detailed information on using the Communications Mode feature, refer to *Communications Mode*.

## Dual Coin Drop

The control will accept pulses from a single or dual coin drop to satisfy vend price. Each coin drop will have the ability to start or run a cycle.

### Start Pulse Operation

The control will accept pulses from a central card reader system. The machine can be programmed to receive a single start pulse or multiple start pulses, or the Start Pulse Option can be turned off. The Start Pulse Mode allows the machine to go from the Ready Mode to the “START” mode after a single pulse or multiple pulses are received.

### Service Door and Coin Vault Openings

The control will capture the times and dates of the openings of the coin vault and the service door. The information is saved in memory. An open service door combined with various keypad presses allows the control to enter manual modes of operation if the Break-In Alarm is not on. These modes include Manual Programming, Audit Collection and Diagnostics.

### Break-In Alarm

This feature allows the owner to program the machine to signal a network alarm if the service door or coin vault is opened without disabling the alarm first. To avoid the alarm during coin collections, the alarm must be disabled.

### OPL Mode

When the tumbler is in OPL mode, the display will show the cycle time and the START pad will be flashing. Pressing the START pad will start the cycle. Pressing the START pad while in a cycle will add the cycle time that is associated with Coin #1 TopOff time. The cycle time may be cleared by pressing the NO HEAT and LOW HEAT temperature pads.

For details on turning the OPL mode on or off, refer to Option #5 in *Programming NetMaster*.

### Special Vend

This feature allows the owner to program the control to allow programmable vend prices for specific hours and dates.

For details on programming Special Vend, refer to *Programming NetMaster*.

### Lucky Cycle

This feature allows the owner to program the machine to provide a free vend cycle to customers after a certain number of cycles have occurred.

For details on programming the Lucky Cycle Option, refer to *Programming NetMaster*.

### Site Code Pricing

This feature allows owners to program the control to accept site codes for special vending that are specific to select groups or individuals when using cards.

For details on programming the site code options, refer to *Programming NetMaster*.



# Removing the Controls

## Stack Tumbler

To remove control from tumbler, unlock it. Push down and in on bottom of control so that the top of the control tilts forward. Pull control out far enough to disconnect wires. Remove control and place it in a clean, dry location where it cannot be damaged.

## Single Tumbler

Unlock access panel over control and remove. Then remove 2 screws and swing out control. Push up on control until top hinge clears slot. Disconnect wire harness from cabinet harness. Remove white switch by pressing in on locking tabs, and pull switch out through front. Place control in a clean, dry location where it cannot be damaged.

**IMPORTANT: Refer to wiring diagram when rewiring control.**

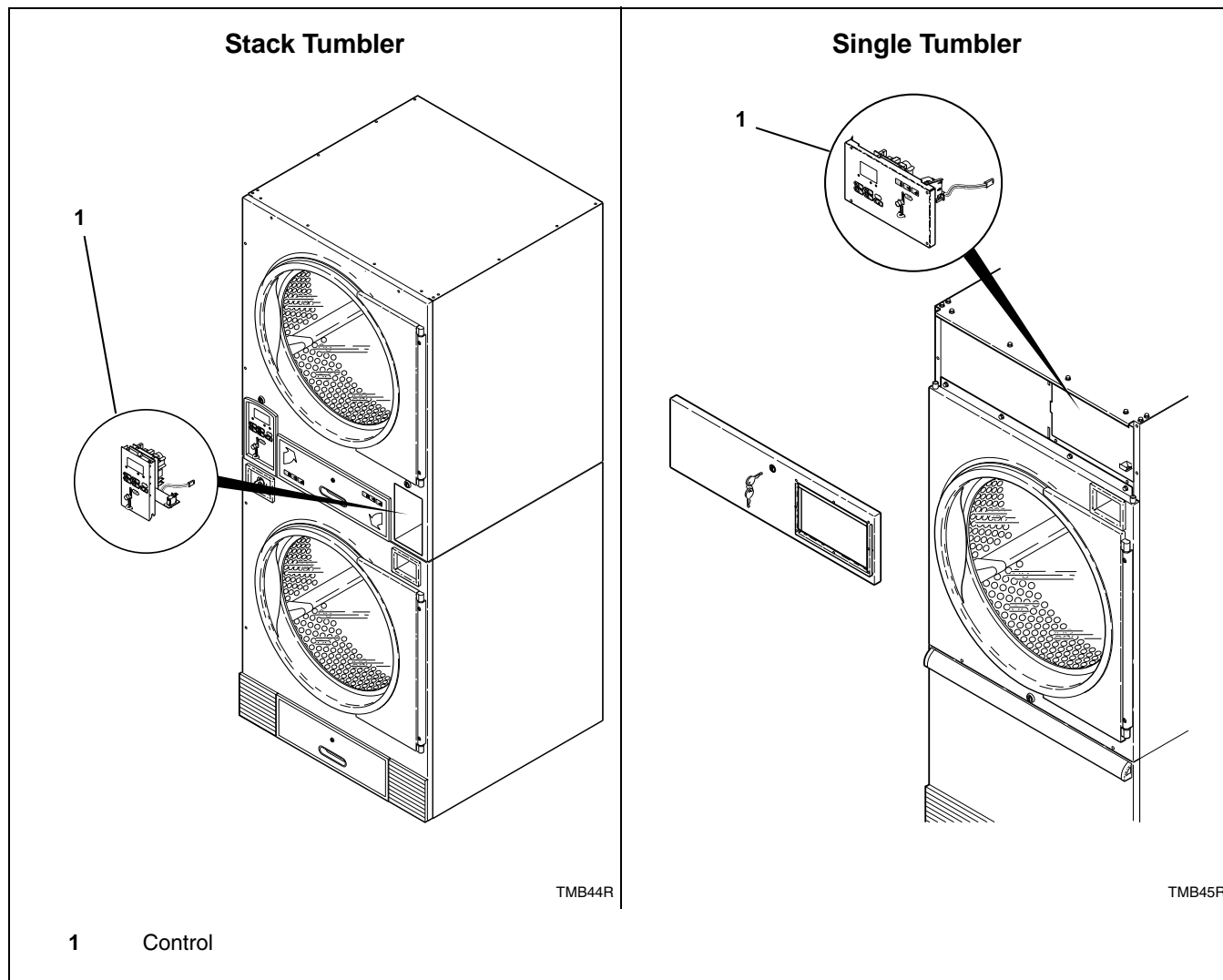


Figure 6

# 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 tumbler is in the Ready Mode before continuing to step 2. Refer to *Figure 2*. If the tumbler is in an active cycle, rapid advance through the cycle. Refer to **Rapid Advance Feature**. If coins have been entered, refer to **Clear Vend Feature**.
2. Open the service door.
3. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand.
4. The VFD will show “rAPd”. Refer to *Figure 7*.

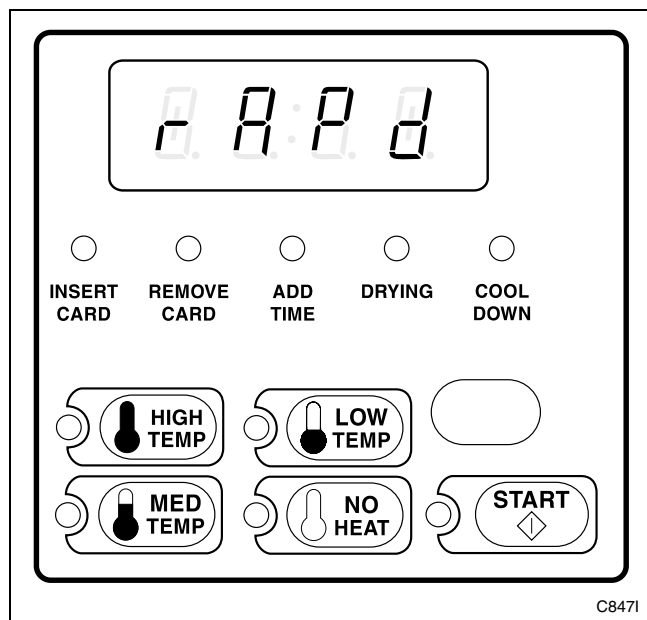


Figure 7

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the options until the desired option appears in the VFD.
6. Press the START (enter) keypad.

The rest of this section describes the six special features that Netmaster can enter.

1. Programming NetMaster
2. Collecting Audit Information
3. Testing Machine and NetMaster Functions
4. Sales Floor Feature
5. Rapid Advance Feature
6. Resetting programmable parameters to factory defaults

Once in the Manual Mode, continue on into one of the features described in detail on the following pages.

Instructions on how to exit each feature are found at the end of each feature description.

# Programming NetMaster

## What Can Be Programmed?

This feature allows the owner to program cycle parameters, 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 IIIIE, the Network, or a programming card. Refer to this section when programming NetMaster.

This section offers a detailed description of all the options available for programming.

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

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

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

## Programmable Options Available

OPTION	DESCRIPTION
+001	Audio Signal
+002	Heat Vend Price
+003	No Heat Vend Price
+004	Card TopOff Price
+005	Site Code #1 Heat Vend Price
+006	Site Code #1 No Heat Vend Price
+007	Special Vend A On/Off, A Day(s) of Week
+008	Special Vend A Start Hour
+009	Special Vend A Length of Time
+010	Special Vend A Start Month
+011	Special Vend A Start Date
+012	Special Vend A End Month
+013	Special Vend A End Date
+014	Special Vend A Site Code #1
+015	Special Vend A Heat Price
+016	Special Vend A Heat Time Minutes
+017	Special Vend A Heat Time Seconds
+018	Special Vend A No Heat Price
+019	Special Vend A No Heat Time Minutes
+020	Special Vend A No Heat Time Seconds
+021	Special Vend A Coin #1 TopOff Minutes
+022	Special Vend A Coin #1 TopOff Seconds
+023	Special Vend A Coin #2 TopOff Minutes

OPTION	DESCRIPTION
+024	Special Vend A Coin #2 TopOff Seconds
+025	Special Vend A Auto-Shutdown Enable
+026	Coin #1 Amount
+027	Coin #2 Amount
+028	Start Pulse Value
+029	Power Fail Reset
+030	Default Cycle
+031	Set Real Time Clock Minutes
+032	Set Real Time Clock Hours
+033	Set Real Time Clock Day
+034	Set Real Time Clock Date
+035	Set Real Time Clock Month
+036	Set Real Time Clock Year
+037	Set Real Time Clock Century
+038	Heat Cycle Time Minutes
+039	Heat Cycle Time Seconds
+040	No Heat Cycle Time Minutes
+041	No Heat Cycle Time Seconds
+042	High Temp Cool Down Time
+043	Medium Temp Cool Down Time
+044	Low Temp Cool Down Time
+045	Coin #1 TopOff Time (Minutes Per Coin)
+046	Coin #1 TopOff Time (Seconds Per Coin)
+047	Coin #2 TopOff Time (Minutes Per Coin)
+048	Coin #2 TopOff Time (Seconds Per Coin)
+049	Card TopOff Minutes
+050	Card TopOff Seconds
+051	Coin #1 Bonus Time (Minutes Per Coin)
+052	Coin #1 Bonus Time (Seconds Per Coin)
+053	Coin #2 Bonus Time (Minutes Per Coin)
+054	Coin #2 Bonus Time (Seconds Per Coin)
+055	Configuration #1
+056	Configuration #2
+057	Configuration #3
+058	High Temperature
+059	Medium Temperature
+060	Low Temperature
+061	Lucky Option
+062	Smart Card Maximum Value
+063	Site Code #1
+064	Error Code Programming Parameter
+065	Start Pulse Mode

## Programming NetMaster

### 1. Audio Signal +001

This option allows the owner to program when the signal will sound.

There are four occasions when a signal may sound during the tumbler operation. These four occasions are listed below:

1. **End of Cycle Signal**  
By default, the signal is turned off. If turned on, the signal will sound for three seconds at the end of a cycle.
2. **Keypad Depression Signal**  
By default, this signal is turned on and will sound for a quarter of a second. This signal will sound each time a keypad is pressed.
3. **Coin Input/Card Insertion Signal**  
By default, this signal is turned on and will sound for a quarter of a second each time a coin or card is entered.
4. **Remove Card Signal (Card Models Only)**  
By default, this signal is turned on and will sound one second on and one second off when the REMOVE CARD LED flashes.

### How to Program the Audio Signal

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad.

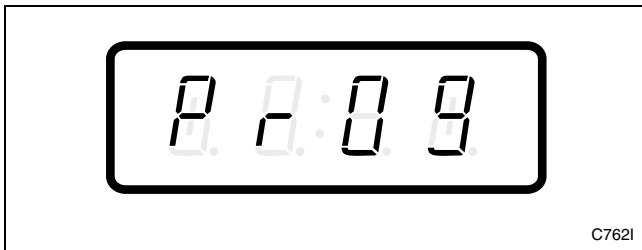


Figure 8

3. “+001” will appear in the VFD. Press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Audio Signal Programming Value.

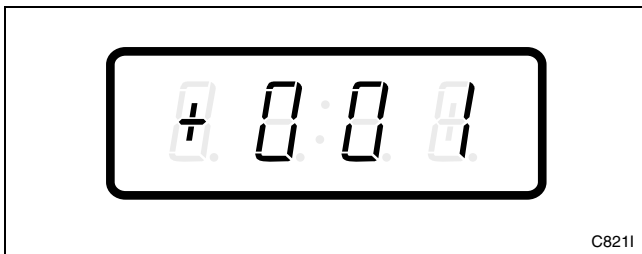
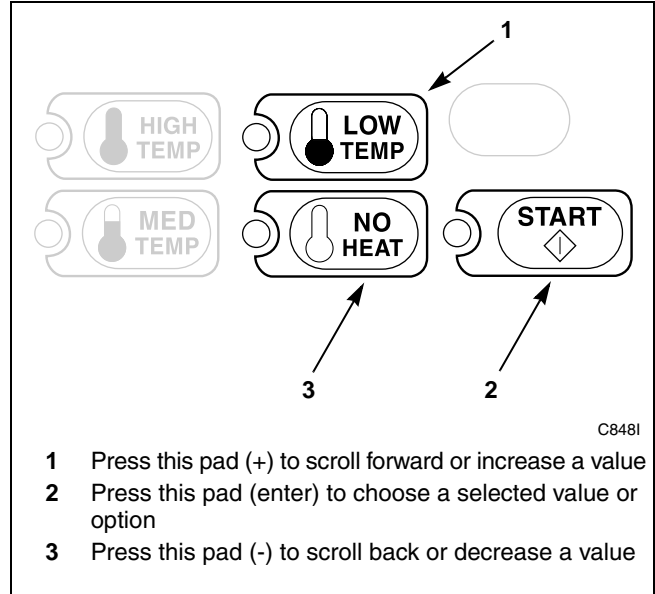


Figure 9

4. Locate the desired number in the first column of *Table 1* on the following page.
5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number until correct. Refer to *Figure 10*.



- 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 10

For Example: A user might wish to have the signal sound only when a keypad is pressed. Entering the number “1” in step 5 would turn off all the options except KEYPAD. In this instance, the signal would sound only when a keypad is pressed.

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, “+002”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### How to Read *Table 1*

To determine the correct number required to program the Audio Signal refer to *Table 1*. The Signal Value column contains the number required in step 5. The other columns correspond to individual options.

Each column of options contains a combination of the words ON and OFF that indicates if that column's option is turned on or off when the Signal Value is entered. Select the desired combination of options and enter the number found in the Signal Value column.

Signal Value	Remove Card	Coin/Card Input	End of Cycle	Key Pressed
0	OFF	OFF	OFF	OFF
1	OFF	OFF	OFF	ON
2	OFF	OFF	ON	OFF
3	OFF	OFF	ON	ON
4	OFF	ON	OFF	OFF
5	OFF	ON	OFF	ON
6	OFF	ON	ON	OFF
7	OFF	ON	ON	ON
8	ON	OFF	OFF	OFF
9	ON	OFF	OFF	ON
10	ON	OFF	ON	OFF
11	ON	OFF	ON	ON
12	ON	ON	OFF	OFF
13*	ON	ON	OFF	ON
14	ON	ON	ON	OFF
15	ON	ON	ON	ON

\* Factory default setting

Table 1

## 2. Heat Vend Price +002

This option allows the owner to set the vend price for a heated cycle. This vend price will be displayed in the VFD when in the Ready Mode.

The vend price programmed in this option is used for all cycles except the NO HEAT cycle unless Special Vend or Site Code pricing is active.

Program this option whenever a heated cycle vend price needs to be changed.

### How to Program the Heat Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

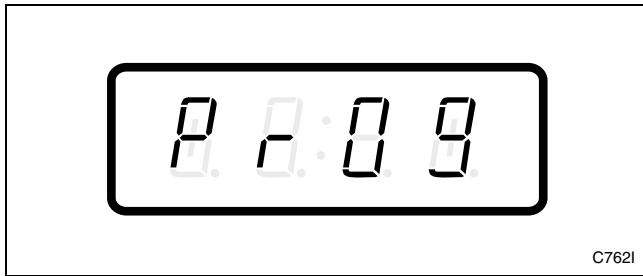


Figure 11

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+002” appears in the VFD. Refer to *Figure 12*.

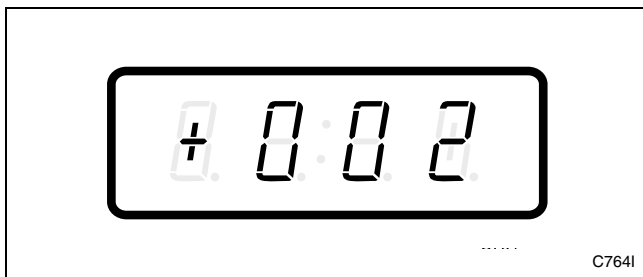


Figure 12

4. When “+002” appears in the VFD, press the START (enter) keypad. There are five digits in the Heat Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 13*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is “1”. If vend price is \$99.99 or less, the fifth digit is “0”.**

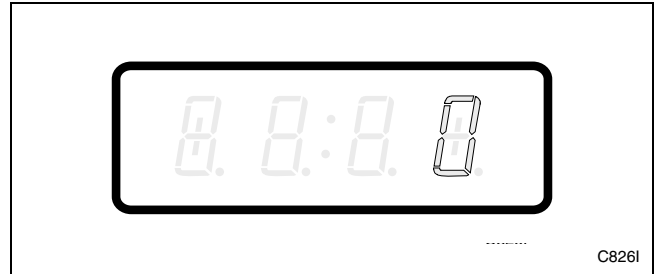
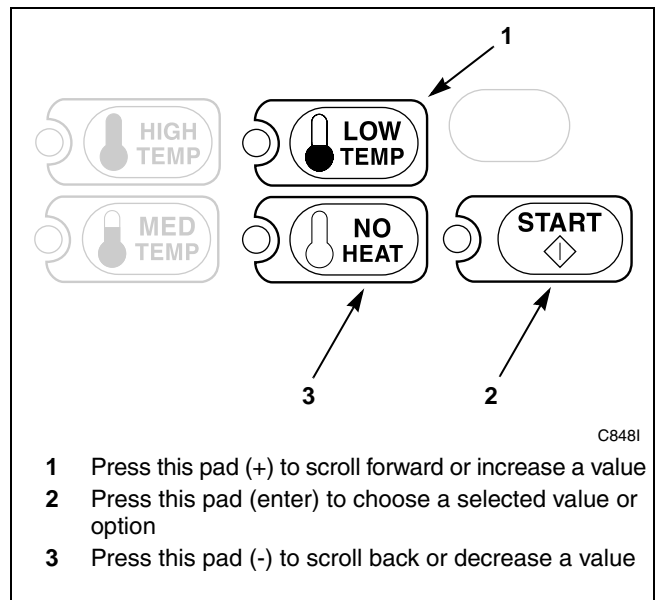


Figure 13

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 14*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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 14

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 15*.

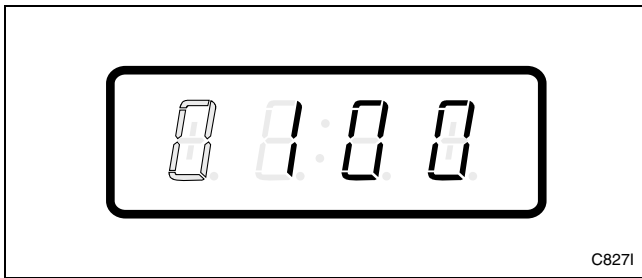


Figure 15

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+003”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 3. No Heat Vend Price +003

This option allows the owner to set the vend price for a NO HEAT cycle. This vend price will be displayed in the VFD when NO HEAT is selected.

#### How to Program the No Heat Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.



Figure 16

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+003” appears in the VFD. Refer to *Figure 17*.

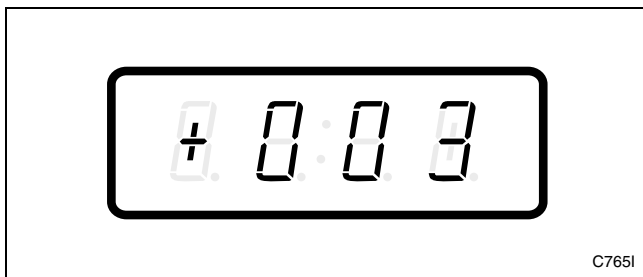


Figure 17

4. When “+003” appears in the VFD, press the START (enter) keypad. There are five digits in the No Heat Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 18*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is “1”. If vend price is \$99.99 or less, the fifth digit is “0”.**

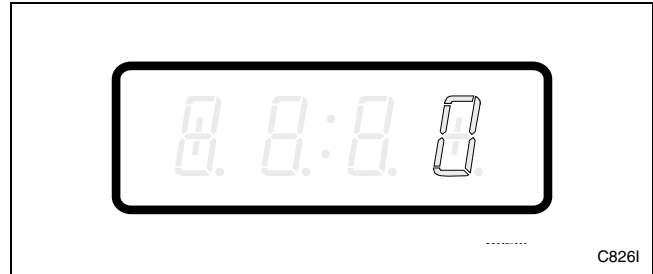
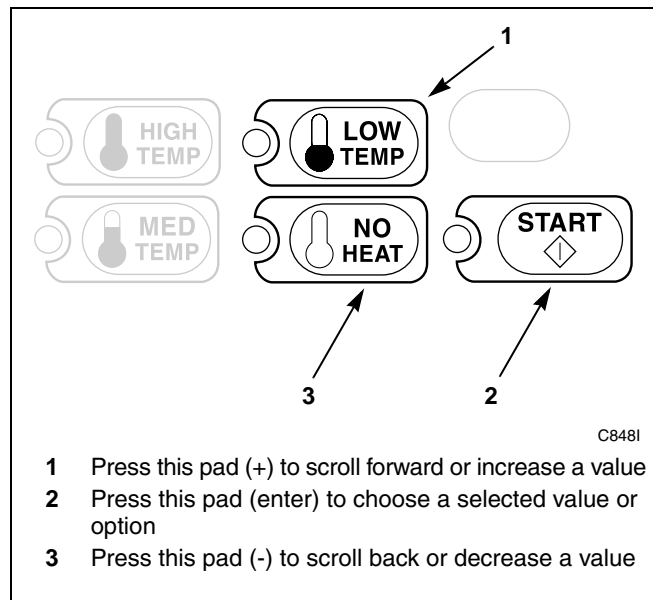


Figure 18

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 19*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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 19



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 20*.

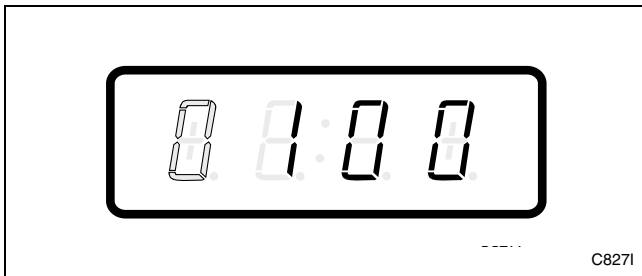


Figure 20

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+004”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 4. Card TopOff Price +004

This option allows the owner to set the vend price for topoffs of drying time when using cards. This vend price will be displayed in the VFD.

#### How to Program the Card TopOff Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

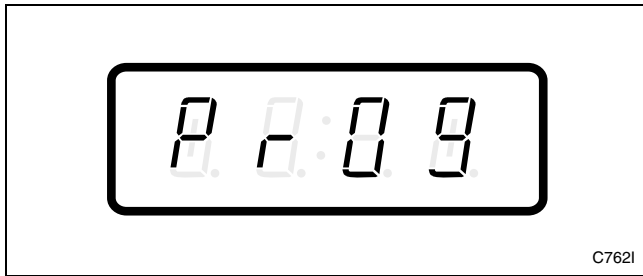


Figure 21

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+004” appears in the VFD. Refer to *Figure 22*.



Figure 22

4. When “+004” appears in the VFD, press the START (enter) keypad. There are five digits in the Card TopOff Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 23*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is “1”. If vend price is \$99.99 or less, the fifth digit is “0”.**

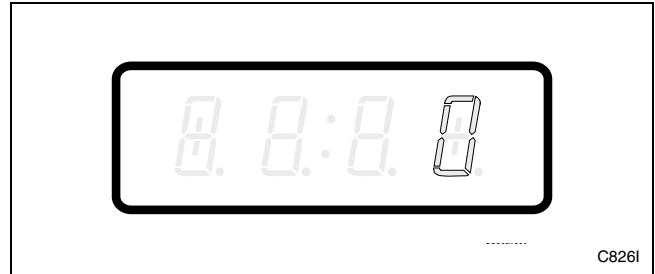
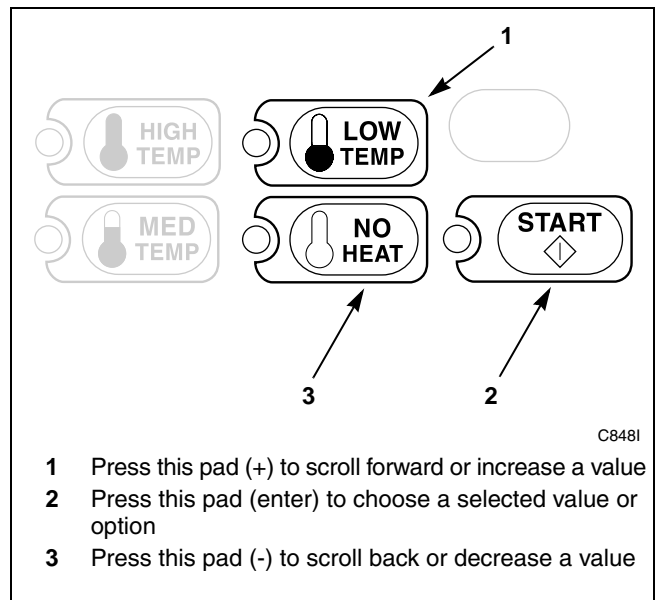


Figure 23

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 24*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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 24

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 25*.

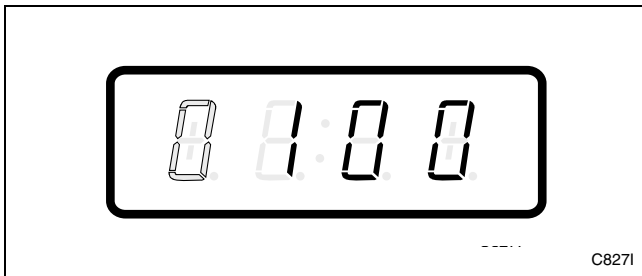


Figure 25

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+005”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 5. Site Code #1 Heat Vend Price +005

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

### How to Program the Site Code #1 Heat Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

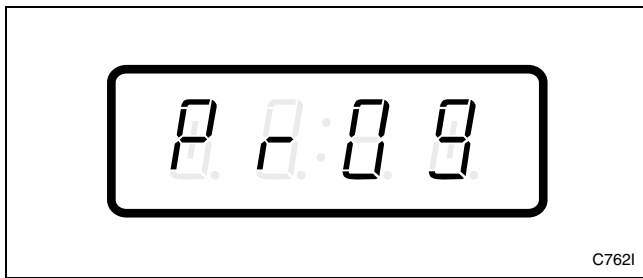


Figure 26

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+005” appears in the VFD. Refer to *Figure 27*.

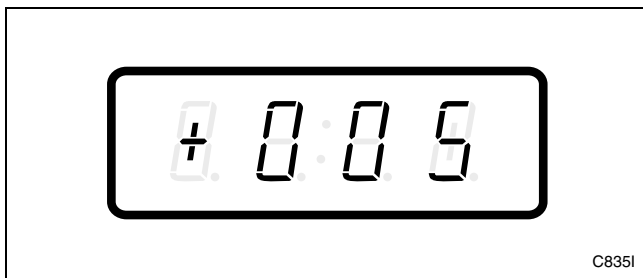


Figure 27

4. When “+005” appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 Heat Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 28*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is “1”. If vend price is \$99.99 or less, the fifth digit is “0”.**

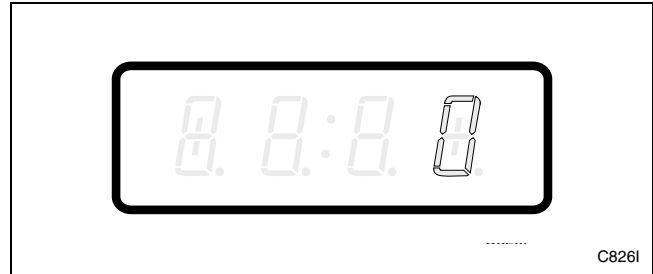
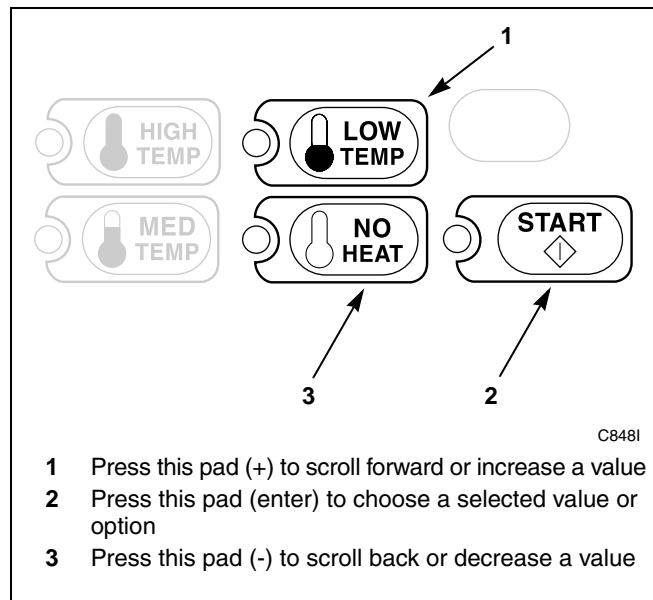


Figure 28

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 29*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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 29

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 30*.

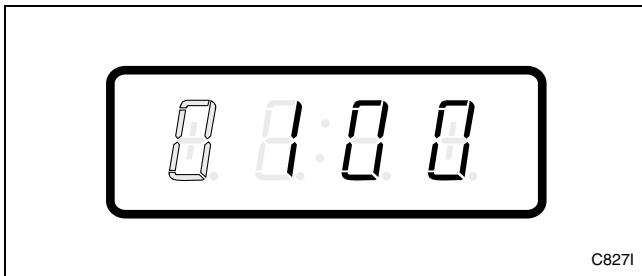


Figure 30

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+006”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 6. Site Code #1 No Heat Vend Price +006

This option allows the owner to set the vend price for no heat cycles when cards with a special site code are used by specific groups or individuals.

### How to Program the Site Code #1 No Heat Vend Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

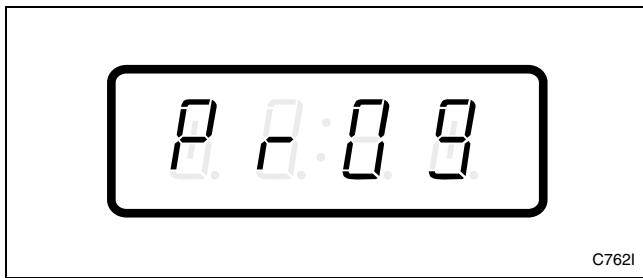


Figure 31

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+006” appears in the VFD. Refer to *Figure 32*.



Figure 32

4. When “+006” appears in the VFD, press the START (enter) keypad. There are five digits in the Site Code #1 No Heat Vend Price. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 33*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is “1”. If vend price is \$99.99 or less, the fifth digit is “0”.**

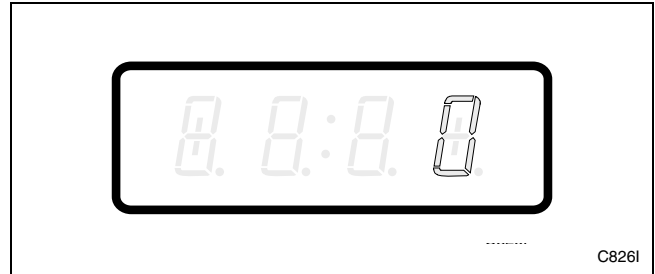
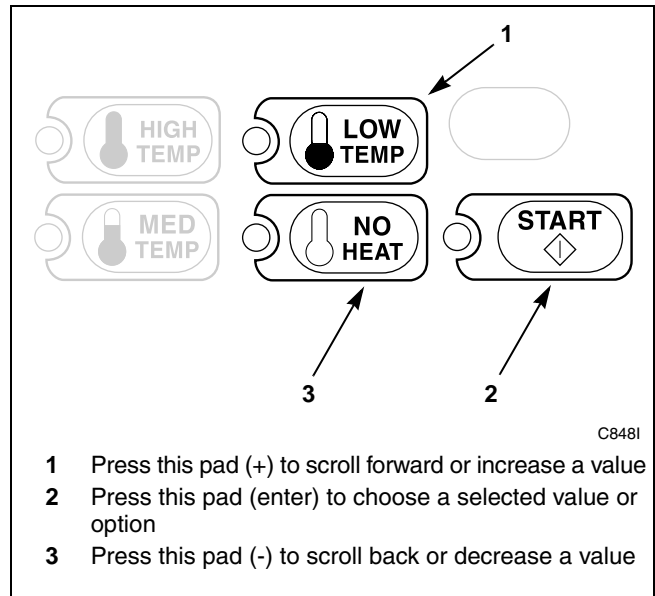


Figure 33

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 34*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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 34

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 35*.

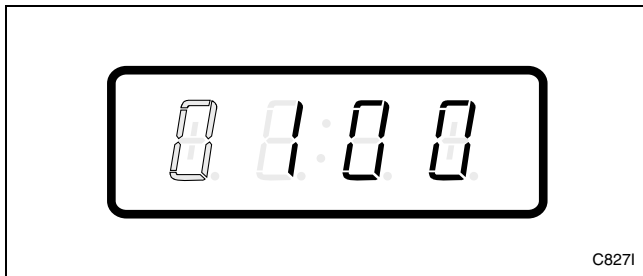


Figure 35

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+007”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 7. Special Vend A On/Off, A Day(s) of Week +007

This option allows the owner to set the day or days of a special vend.

Special Vend A is used to change the standard vend prices for special occasions or to turn the machine off. The special vend can be programmed to start and end on a specific day or days of the week.

The owner may also turn the Special Vend A option on or off if desired.

### How to Program Special Vend A On/Off, A Day(s) of Week

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

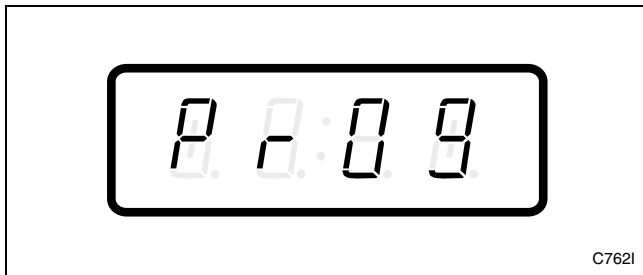


Figure 36

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+007” appears in the VFD. Refer to *Figure 37*.

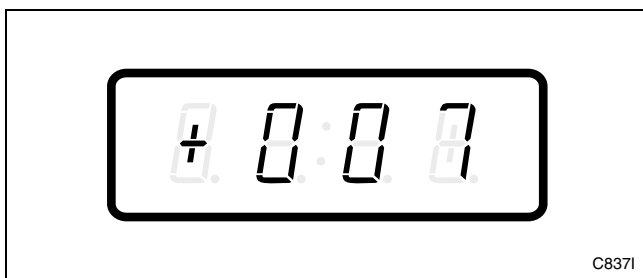


Figure 37

4. When “+007” appears in the VFD, press the START (enter) keypad. A number will appear in the VFD that corresponds to the current Special Vend A On/Off, A Day(s) of Week Programming Value.
5. Locate the desired number in the first column of *Table 2* on the following pages.
6. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number until correct. Refer to *Figure 38*.

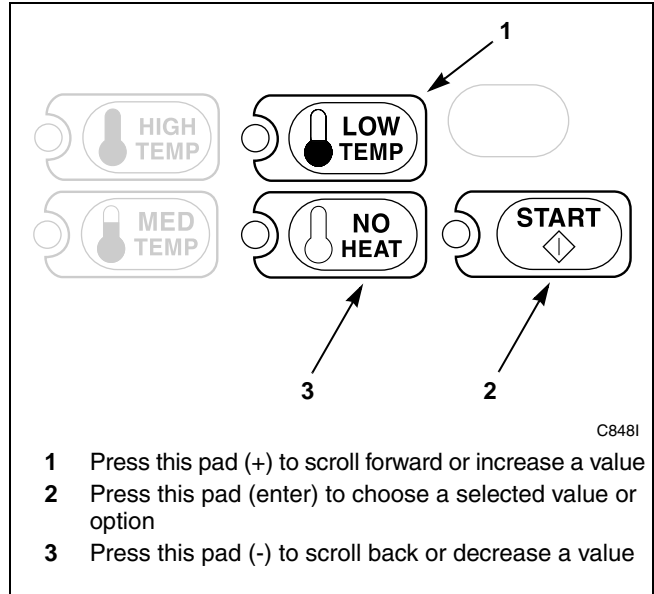


Figure 38

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, “+008”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



**How to Read Table 2**

To determine the correct number required to program the Special Vend A On/Off, A Day(s) of Week, use the following table. The SPA Value column contains the number required in step 6. The other columns correspond to individual days.

Each column of days contains a unique combination of the words ON and OFF that indicates if that column's day is turned on or off when the SPA value is entered. Select the desired combination of days and enter the number found in the SPA value column.

Special Vend A On/Off, Day(s) of Week								
SPA VALUE	SAT	FRI	THUR	WED	TUE	MON	SUN	ON/OFF
0*	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
3	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
5	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
7	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
9	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
11	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
13	OFF	OFF	OFF	OFF	ON	ON	OFF	ON
15	OFF	OFF	OFF	OFF	ON	ON	ON	ON
17	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
19	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
21	OFF	OFF	OFF	ON	OFF	ON	OFF	ON
23	OFF	OFF	OFF	ON	OFF	ON	ON	ON
25	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
27	OFF	OFF	OFF	ON	ON	OFF	ON	ON
29	OFF	OFF	OFF	ON	ON	ON	OFF	ON
31	OFF	OFF	OFF	ON	ON	ON	ON	ON
33	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
35	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
37	OFF	OFF	ON	OFF	OFF	ON	OFF	ON
39	OFF	OFF	ON	OFF	OFF	ON	ON	ON
41	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
43	OFF	OFF	ON	OFF	ON	OFF	ON	ON
45	OFF	OFF	ON	OFF	ON	ON	OFF	ON
47	OFF	OFF	ON	OFF	ON	ON	ON	ON
49	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
51	OFF	OFF	ON	ON	OFF	OFF	ON	ON
53	OFF	OFF	ON	ON	OFF	ON	OFF	ON
55	OFF	OFF	ON	ON	OFF	ON	ON	ON
57	OFF	OFF	ON	ON	ON	OFF	OFF	ON
59	OFF	OFF	ON	ON	ON	OFF	ON	ON
61	OFF	OFF	ON	ON	ON	ON	OFF	ON
63	OFF	OFF	ON	ON	ON	ON	ON	ON
65	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
67	OFF	ON	OFF	OFF	OFF	OFF	ON	ON
69	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
71	OFF	ON	OFF	OFF	OFF	ON	ON	ON
73	OFF	ON	OFF	OFF	ON	OFF	OFF	ON

\* Factory default setting

Table 2 (Continued)

Table 2 (Continued)

Special Vend A On/Off, Day(s) of Week								
SPA VALUE	SAT	FRI	THUR	WED	TUE	MON	SUN	ON/OFF
75	OFF	ON	OFF	OFF	ON	OFF	ON	ON
77	OFF	ON	OFF	OFF	ON	ON	OFF	ON
79	OFF	ON	OFF	OFF	ON	ON	ON	ON
81	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
83	OFF	ON	OFF	ON	OFF	OFF	ON	ON
85	OFF	ON	OFF	ON	OFF	ON	OFF	ON
87	OFF	ON	OFF	ON	OFF	ON	ON	ON
89	OFF	ON	OFF	ON	ON	OFF	OFF	ON
91	OFF	ON	OFF	ON	ON	OFF	ON	ON
93	OFF	ON	OFF	ON	ON	ON	OFF	ON
95	OFF	ON	OFF	ON	ON	ON	ON	ON
97	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
99	OFF	ON	ON	OFF	OFF	OFF	ON	ON
101	OFF	ON	ON	OFF	OFF	ON	OFF	ON
103	OFF	ON	ON	OFF	OFF	ON	ON	ON
105	OFF	ON	ON	OFF	ON	OFF	OFF	ON
107	OFF	ON	ON	OFF	ON	OFF	ON	ON
109	OFF	ON	ON	OFF	ON	ON	OFF	ON
111	OFF	ON	ON	OFF	ON	ON	ON	ON
113	OFF	ON	ON	ON	OFF	OFF	OFF	ON
115	OFF	ON	ON	ON	OFF	OFF	ON	ON
117	OFF	ON	ON	ON	OFF	ON	OFF	ON
119	OFF	ON	ON	ON	OFF	ON	ON	ON
121	OFF	ON	ON	ON	ON	OFF	OFF	ON
123	OFF	ON	ON	ON	ON	OFF	ON	ON
125	OFF	ON	ON	ON	ON	ON	OFF	ON
127	OFF	ON	ON	ON	ON	ON	ON	ON
129	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
131	ON	OFF	OFF	OFF	OFF	OFF	ON	ON
133	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
135	ON	OFF	OFF	OFF	OFF	ON	ON	ON
137	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
139	ON	OFF	OFF	OFF	ON	OFF	ON	ON
141	ON	OFF	OFF	OFF	ON	ON	OFF	ON
143	ON	OFF	OFF	OFF	ON	ON	ON	ON
145	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
147	ON	OFF	OFF	ON	OFF	OFF	ON	ON
149	ON	OFF	OFF	ON	OFF	ON	OFF	ON
151	ON	OFF	OFF	ON	OFF	ON	ON	ON
153	ON	OFF	OFF	ON	ON	OFF	OFF	ON
155	ON	OFF	OFF	ON	ON	OFF	ON	ON
157	ON	OFF	OFF	ON	ON	ON	OFF	ON
159	ON	OFF	OFF	ON	ON	ON	ON	ON
161	ON	OFF	ON	OFF	OFF	OFF	OFF	ON

Table 2 (Continued)

Table 2 (Continued)

Special Vend A On/Off, Day(s) of Week								
SPA VALUE	SAT	FRI	THUR	WED	TUE	MON	SUN	ON/OFF
163	ON	OFF	ON	OFF	OFF	OFF	ON	ON
165	ON	OFF	ON	OFF	OFF	ON	OFF	ON
167	ON	OFF	ON	OFF	OFF	ON	ON	ON
169	ON	OFF	ON	OFF	ON	OFF	OFF	ON
171	ON	OFF	ON	OFF	ON	OFF	ON	ON
173	ON	OFF	ON	OFF	ON	ON	OFF	ON
175	ON	OFF	ON	OFF	ON	ON	ON	ON
177	ON	OFF	ON	ON	OFF	OFF	OFF	ON
179	ON	OFF	ON	ON	OFF	OFF	ON	ON
181	ON	OFF	ON	ON	OFF	ON	OFF	ON
183	ON	OFF	ON	ON	OFF	ON	ON	ON
185	ON	OFF	ON	ON	ON	OFF	OFF	ON
187	ON	OFF	ON	ON	ON	OFF	ON	ON
189	ON	OFF	ON	ON	ON	ON	OFF	ON
191	ON	OFF	ON	ON	ON	ON	ON	ON
193	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
195	ON	ON	OFF	OFF	OFF	OFF	ON	ON
197	ON	ON	OFF	OFF	OFF	ON	OFF	ON
199	ON	ON	OFF	OFF	OFF	ON	ON	ON
201	ON	ON	OFF	OFF	ON	OFF	OFF	ON
203	ON	ON	OFF	OFF	ON	OFF	ON	ON
205	ON	ON	OFF	OFF	ON	ON	OFF	ON
207	ON	ON	OFF	OFF	ON	ON	ON	ON
209	ON	ON	OFF	ON	OFF	OFF	OFF	ON
211	ON	ON	OFF	ON	OFF	OFF	ON	ON
213	ON	ON	OFF	ON	OFF	ON	OFF	ON
215	ON	ON	OFF	ON	OFF	ON	ON	ON
217	ON	ON	OFF	ON	ON	OFF	OFF	ON
219	ON	ON	OFF	ON	ON	OFF	ON	ON
221	ON	ON	OFF	ON	ON	ON	OFF	ON
223	ON	ON	OFF	ON	ON	ON	ON	ON
225	ON	ON	ON	OFF	OFF	OFF	OFF	ON
227	ON	ON	ON	OFF	OFF	OFF	ON	ON
229	ON	ON	ON	OFF	OFF	ON	OFF	ON
231	ON	ON	ON	OFF	OFF	ON	ON	ON
233	ON	ON	ON	OFF	ON	OFF	OFF	ON
235	ON	ON	ON	OFF	ON	OFF	ON	ON
237	ON	ON	ON	OFF	ON	ON	OFF	ON
239	ON	ON	ON	OFF	ON	ON	ON	ON
241	ON	ON	ON	ON	OFF	OFF	OFF	ON
243	ON	ON	ON	ON	OFF	OFF	ON	ON
245	ON	ON	ON	ON	OFF	ON	OFF	ON
247	ON	ON	ON	ON	OFF	ON	ON	ON
249	ON	ON	ON	ON	ON	OFF	OFF	ON

Table 2 (Continued)

Table 2 (Continued)

<b>Special Vend A On/Off, Day(s) of Week</b>								
<b>SPA VALUE</b>	<b>SAT</b>	<b>FRI</b>	<b>THUR</b>	<b>WED</b>	<b>TUE</b>	<b>MON</b>	<b>SUN</b>	<b>ON/OFF</b>
251	ON	ON	ON	ON	ON	OFF	ON	ON
253	ON	ON	ON	ON	ON	ON	OFF	ON
255	ON	ON	ON	ON	ON	ON	ON	ON

Table 2

## 8. Special Vend A Start Hour +008

This option allows the owner to set the hour that Special Vend A will begin.

### How to Program Special Vend A Hour

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

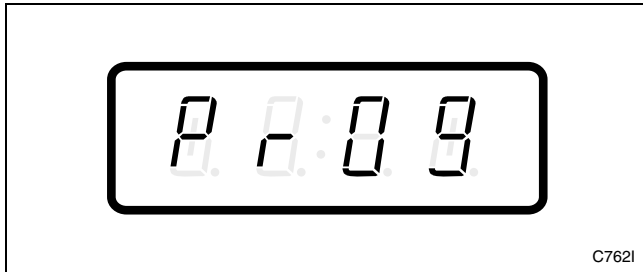


Figure 39

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+008” appears in the VFD. Refer to *Figure 40*.

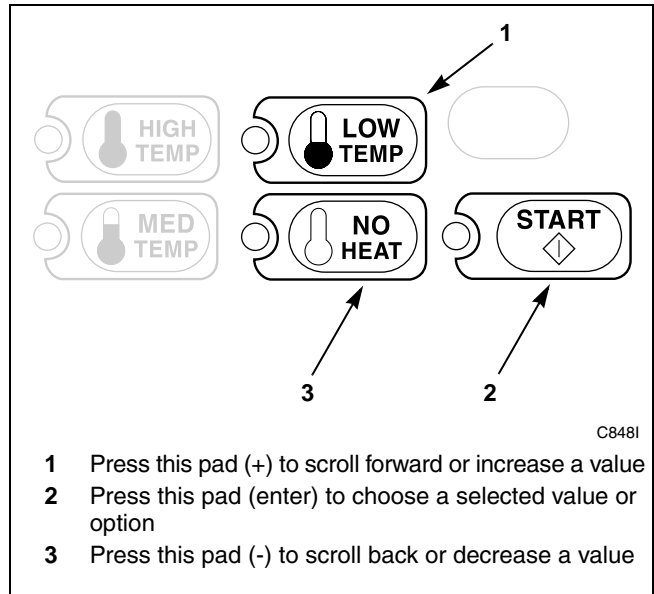


Figure 40

4. When “+008” appears in the VFD, press the START (enter) keypad. The current start time (in military time) will appear in the VFD.

**NOTE: The hours will be displayed in military time.**

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the start hour to the desired hour. 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 when the correct hour appears in the VFD. The next option, “+009”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 9. Special Vend A Length of Time +009

This option allows the owner to set the length of time in hours for Special Vend A.

### How to Program Special Vend A Length of Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

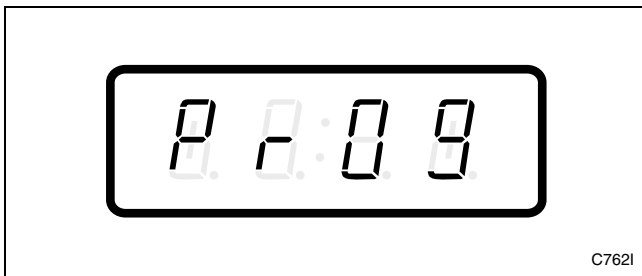


Figure 42

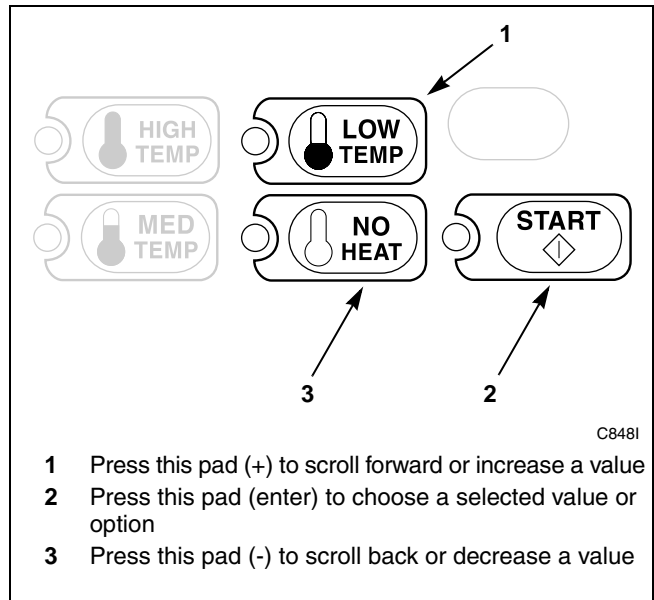
3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+009” appears in the VFD. Refer to *Figure 43*.



Figure 43

4. When “+009” appears in the VFD, press the START (enter) keypad. The current length of time in hours will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current length of time to the desired length of time. Refer to *Figure 44*.



- 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 44

6. Press the START (enter) keypad when the correct length of time appears in the VFD. The next option, “+010”, will appear in the VFD.

**NOTE: Do not program “FREE” Special Vend A for more than 23 hours. This feature cannot be turned off manually if set for 24 hours.**

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 10. Special Vend A Start Month +010

This option allows the owner to set the month that Special Vend A will begin.

**NOTE: If Special Vend A Start Month, Start Date, End Month, or End Date are programmed to zero (default is zero), the Special Vend A will be active every week on the days programmed in *option 7*.**

### How to Program Special Vend A Start Month

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

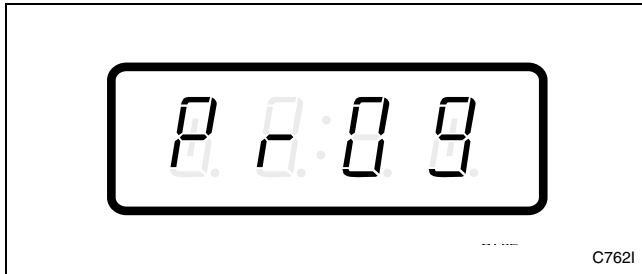


Figure 45

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+010” appears in the VFD. Refer to *Figure 46*.

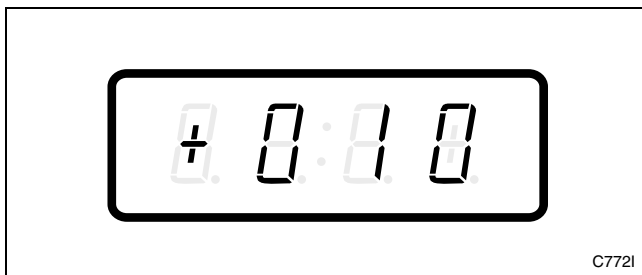
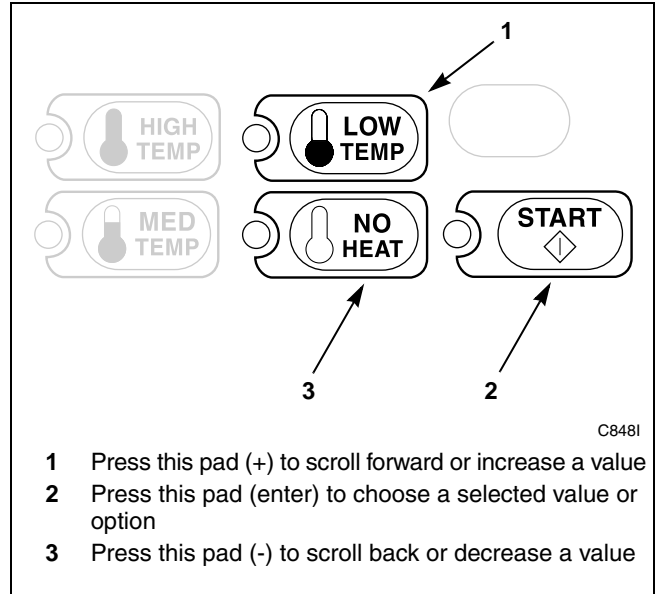


Figure 46

4. When “+010” appears in the VFD, press the START (enter) keypad. The current start month will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the start month to the desired month. Refer to *Figure 47*.

If “0” is selected and Special Vend A is on, Special Vend A will occur at the time and days of week selected, regardless of the month.



- 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 47

6. Press the START (enter) keypad when the correct month appears in the VFD. The next option, “+011”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 11. Special Vend A Start Date +011

This option allows the owner to set the date that Special Vend A will begin.

### How to Program Special Vend A Start Date

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

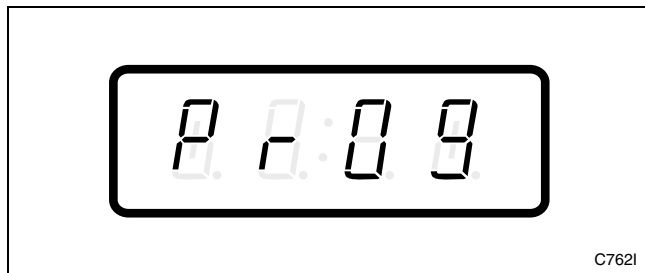


Figure 48

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+011” appears in the VFD. Refer to *Figure 49*.

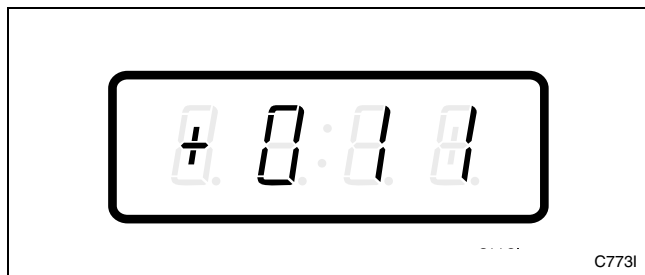


Figure 49

4. When “+011” appears in the VFD, press the START (enter) keypad. The current start date will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the start date to the desired date. Refer to *Figure 50*.

If “0” is selected and Special Vend A is on, Special Vend A will occur at the time or days of week selected, regardless of the date.

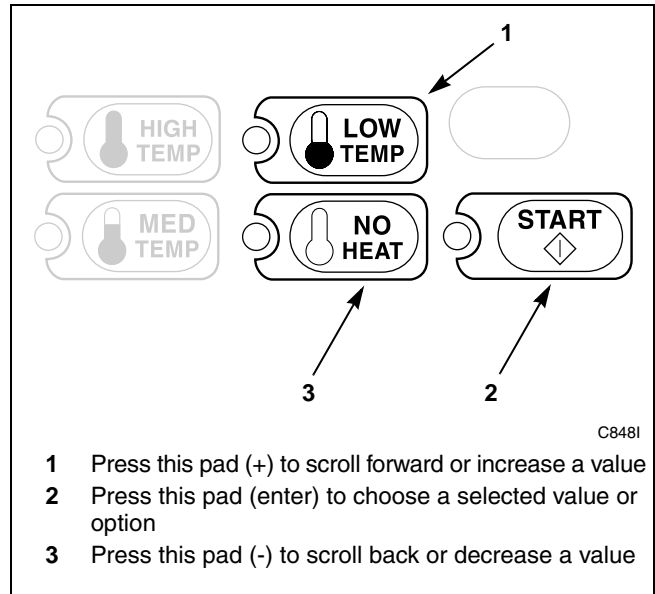


Figure 50

6. Press the START (enter) keypad when the correct date appears in the VFD. The next option, “+012”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



## 12. Special Vend A End Month +012

This option allows the owner to set the month that Special Vend A will end.

### How to Program Special Vend A End Month

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

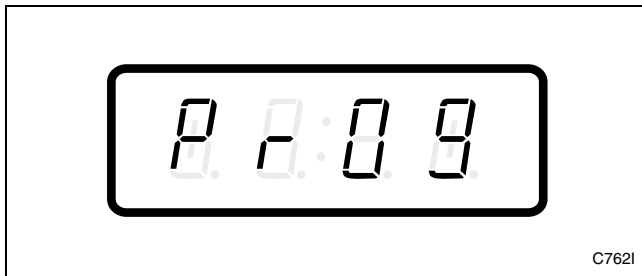


Figure 51

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+012” appears in the VFD. Refer to *Figure 52*.

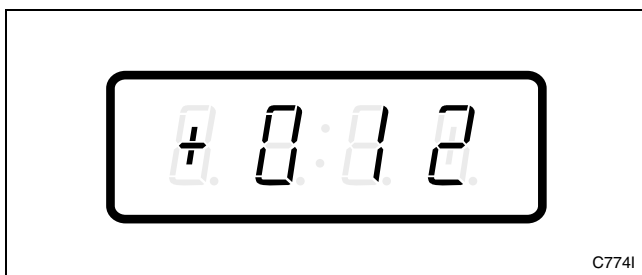


Figure 52

4. When “+012” appears in the VFD, press the START (enter) keypad. The current end month will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the end month to the desired month. Refer to *Figure 53*.

If “0” is selected and Special Vend A is on, Special Vend A will occur at the time or day of week selected, regardless of the month.

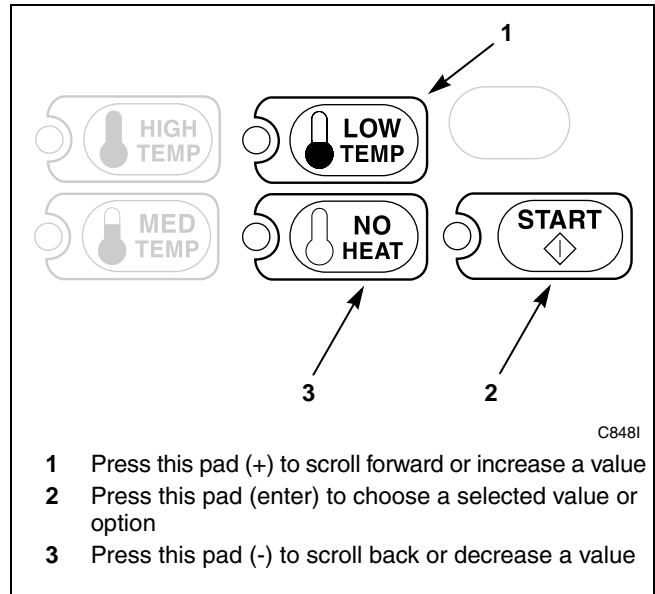


Figure 53

6. Press the START (enter) keypad when the correct month appears in the VFD. The next option, “+013”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 13. Special Vend A End Date +013

This option allows the owner to set the date that Special Vend A will end.

#### How to Program Special Vend A End Date

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

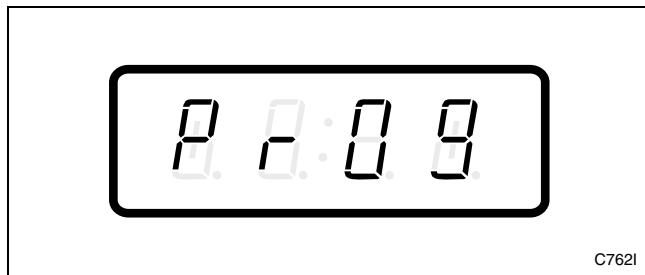


Figure 54

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+013” appears in the VFD. Refer to *Figure 55*.

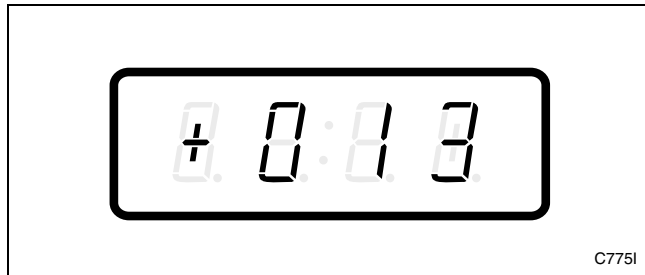
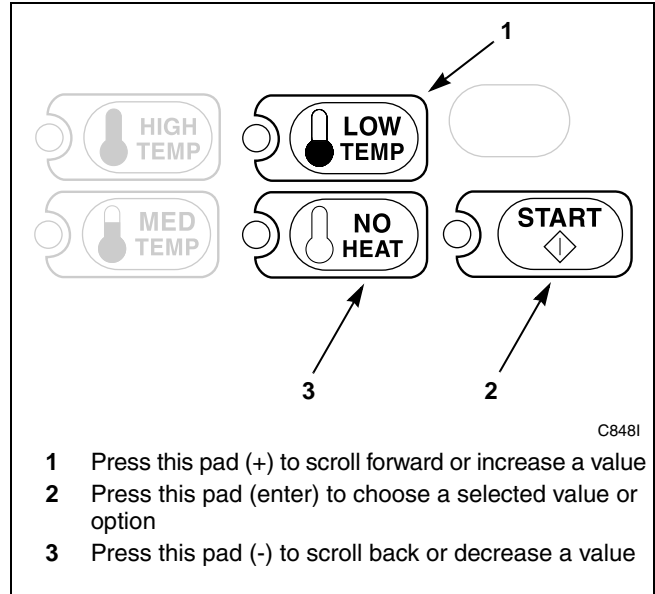


Figure 55

4. When “+013” appears in the VFD, press the START (enter) keypad. The current end date will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the end date to the desired date. Refer to *Figure 56*.

If “0” is selected and Special Vend A is on, Special Vend A will occur at the time or days of week selected, regardless of the date.



- 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 date appears in the VFD. The next option, “+014”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 14. Special Vend A Site Code #1 +014

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 also allows the owner to only give Special Vend A pricing for a card with this site code. If Special Vend A site code #1 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 LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

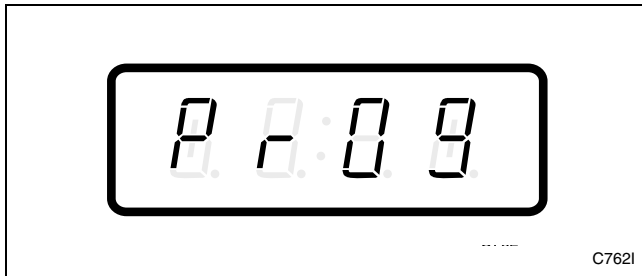


Figure 57

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+014” appears in the VFD. Refer to *Figure 58*.

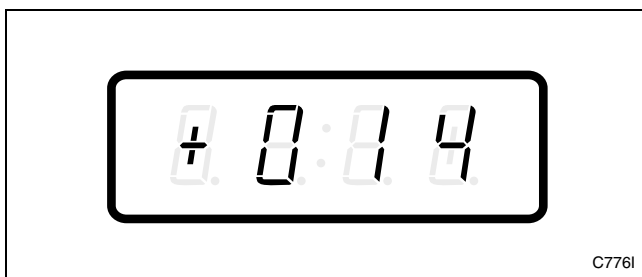


Figure 58

4. When “+014” 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 59*.

**NOTE: If the site code is 10,000 or more, the fifth digit is “1”. If the site code is 9,999 or less, the fifth digit is “0”.**

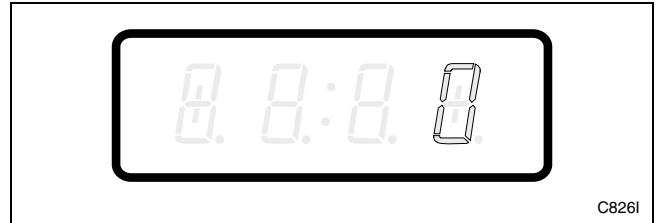
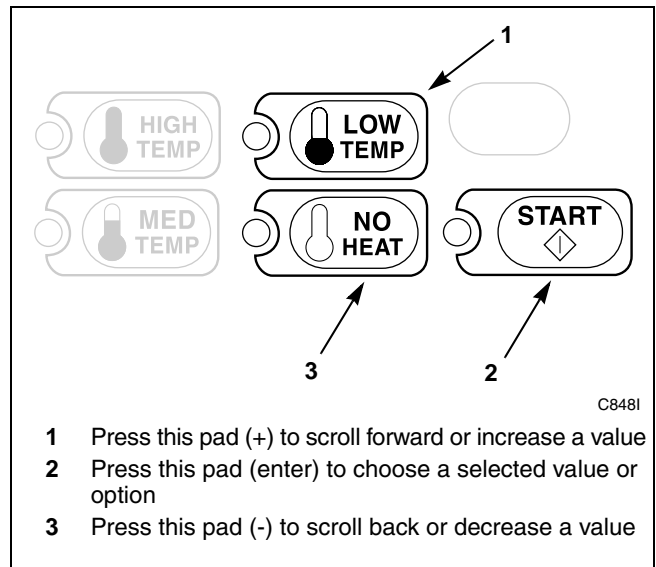


Figure 59

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 60*.

**NOTE: The site code can be set from 0 to 65,535.**



- 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 60

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 61*.

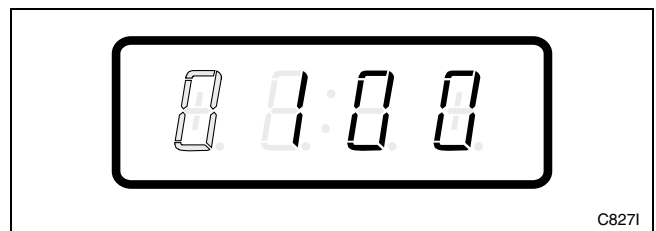


Figure 61

## Programming NetMaster

7. Press the LOW TEMP (+) or the NO HEAT (-) 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.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 15. Special Vend A Heat Price +015

This option allows the owner to set the vend price for a heated cycle in Special Vend A.

The vend price programmed in this option is used for all cycles except the NO HEAT cycle.

### How to Program Special Vend A Heat Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

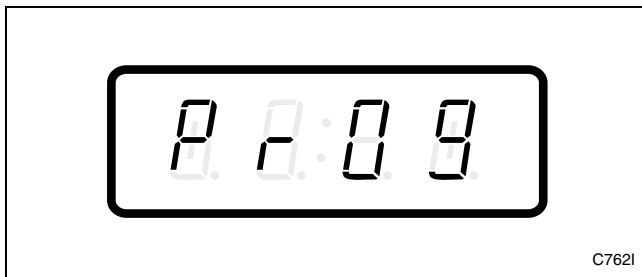


Figure 62

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until "+015" appears in the VFD. Refer to *Figure 63*.

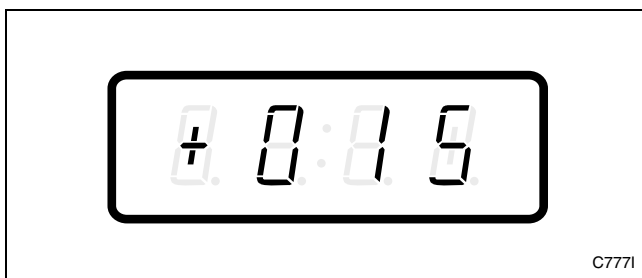


Figure 63

4. When "+015" appears in the VFD, press the START (enter) keypad. There are five digits in the Special Vend A Heat Price. The fifth digit will appear in the VFD and will flash one second on and one second off. Refer to *Figure 64*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is "1". If vend price is \$99.99 or less, the fifth digit is "0".**

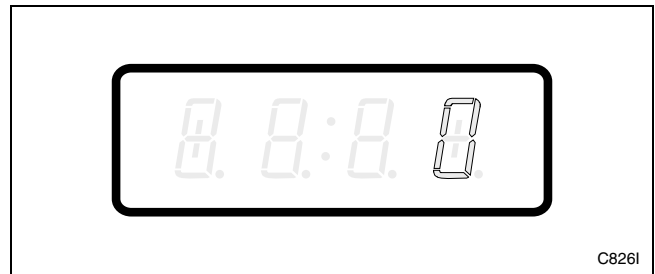
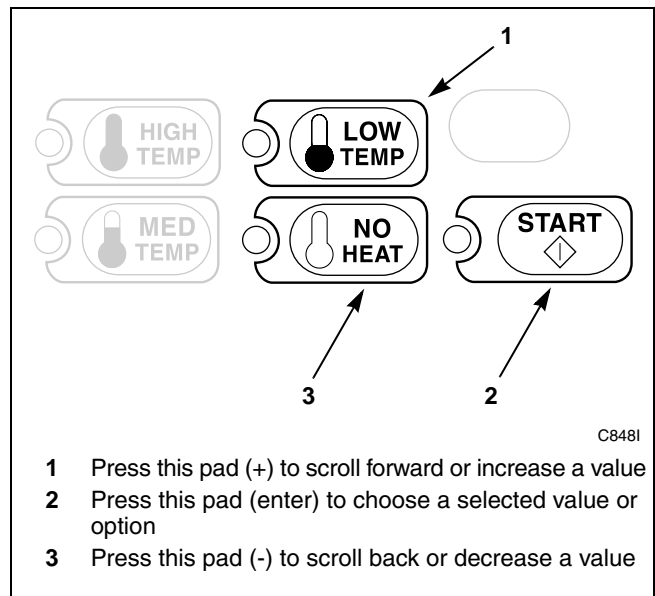


Figure 64

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 65*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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

## Programming NetMaster

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 66*.

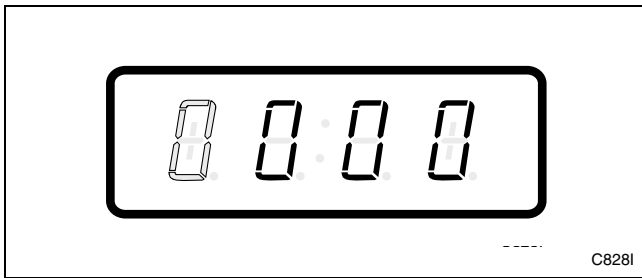


Figure 66

7. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the active digit and the START 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, “+016”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 16. Special Vend A Heat Time Minutes +016

This option allows the owner to set the amount of time in minutes for the heated cycles in Special Vend A.

### How to Program Special Vend A Heat Time Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

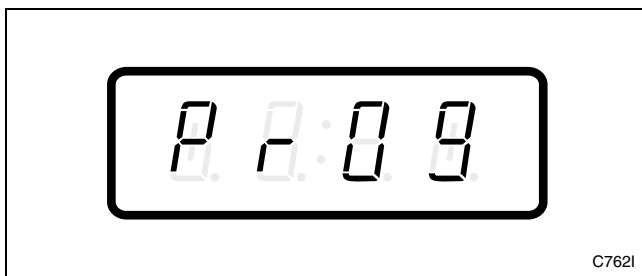


Figure 67

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+016” appears in the VFD. Refer to *Figure 68*.

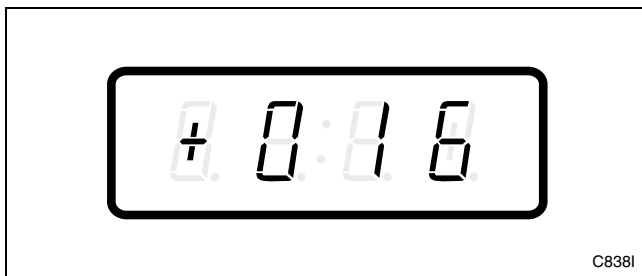
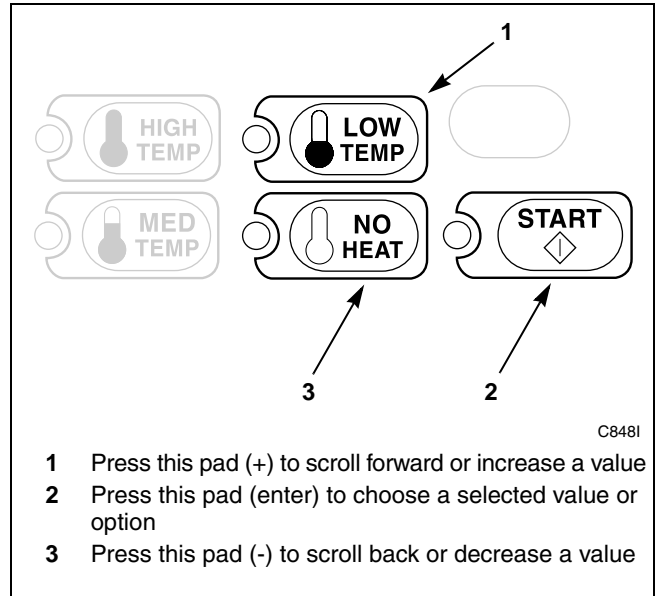


Figure 68

4. When “+016” appears in the VFD, press the START (enter) keypad. The current number of minutes set for Special Vend A Heat Time Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 69*.

**NOTE: Special Vend A Heat Time Minutes can be set from one (1) to 99 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 69

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+017”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 17. Special Vend A Heat Time Seconds +017

This option allows the owner to set the amount of time in seconds for the heated cycles in Special Vend A.

### How to Program Special Vend A Heat Time Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

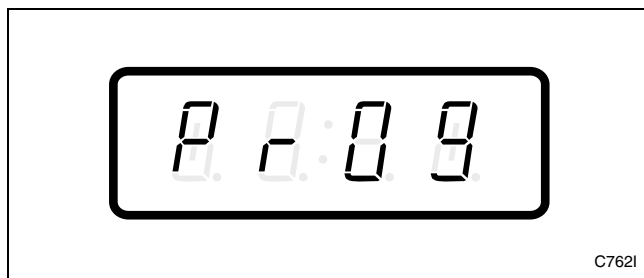


Figure 70

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+017” appears in the VFD. Refer to *Figure 71*.

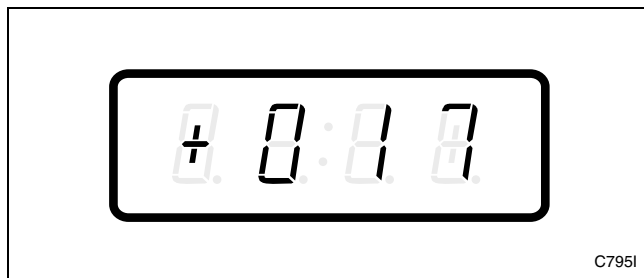


Figure 71

4. When “+017” appears in the VFD, press the START (enter) keypad. The current number of seconds set for Special Vend A Heat Time Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 72*.

**NOTE: Special Vend A Heat Time Seconds can be set from zero (0) to 59 seconds.**

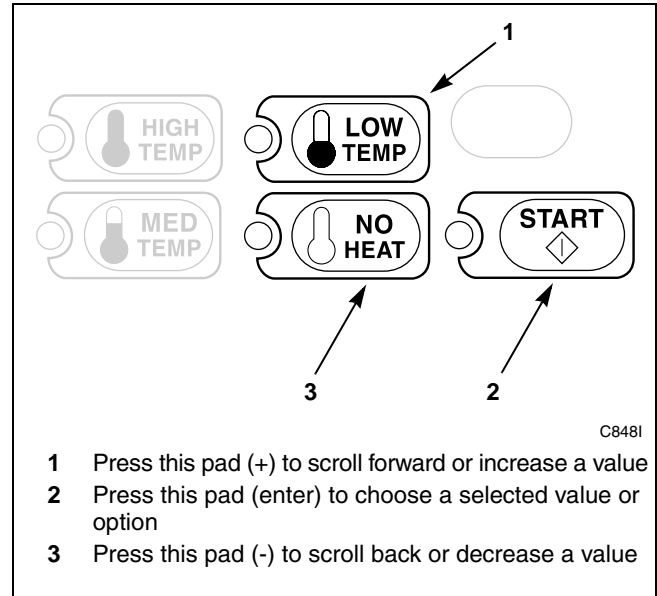


Figure 72

6. Press the START (enter) keypad when the correct number of seconds appears in the VFD. The next option, “+018”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



## 18. Special Vend A No Heat Price +018

This option allows the owner to set the vend price for a no heat cycle in Special Vend A.

### How to Program Special Vend A No Heat Price

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

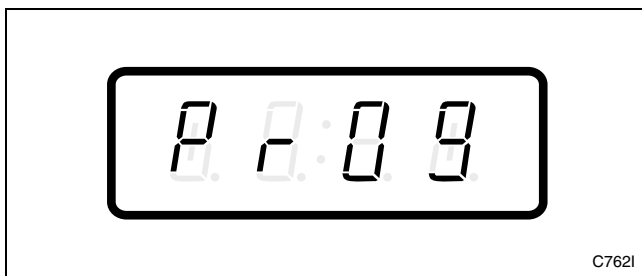


Figure 73

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+018” appears in the VFD. Refer to *Figure 74*.

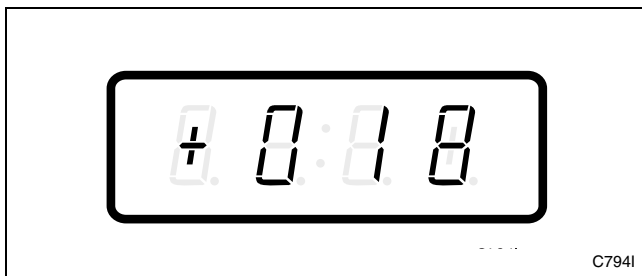


Figure 74

4. When “+018” appears in the VFD, press the START (enter) keypad. There are five digits in the Special Vend A No Heat Price. The fifth digit will appear in the VFD and will flash one second on and one second off. Refer to *Figure 75*.

**NOTE: If vend price is \$100.00 or more, the fifth digit is “1”. If vend price is \$99.99 or less, the fifth digit is “0”.**

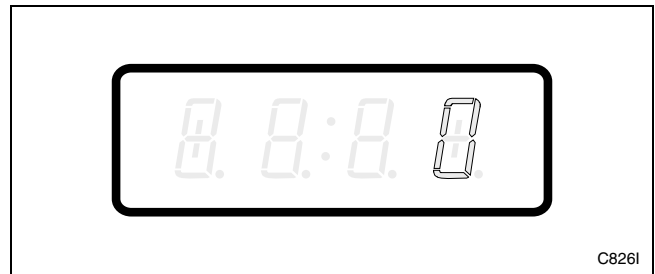
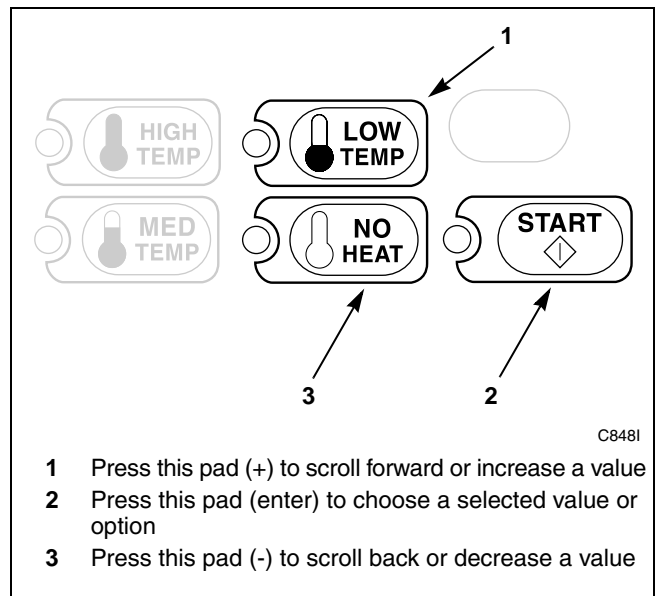


Figure 75

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 76*.

**NOTE: The vend price can be set from 1 to 65,535.**



- 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 76

## Programming NetMaster

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 77*.

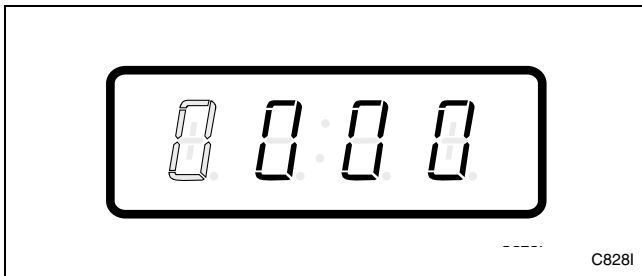


Figure 77

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+019”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 19. Special Vend A No Heat Time Minutes +019

This option allows the owner to set the amount of time in minutes for the no heat cycle in Special Vend A.

### How to Program Special Vend A No Heat Time Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

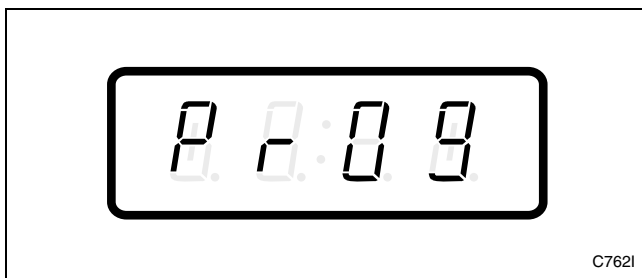


Figure 78

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+019” appears in the VFD. Refer to *Figure 79*.

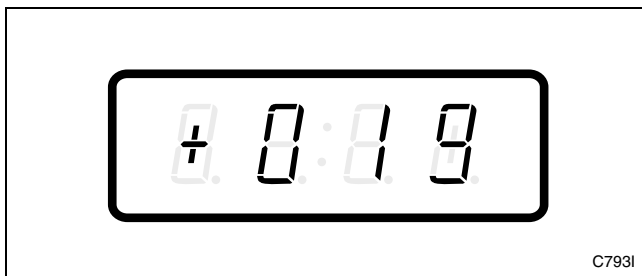
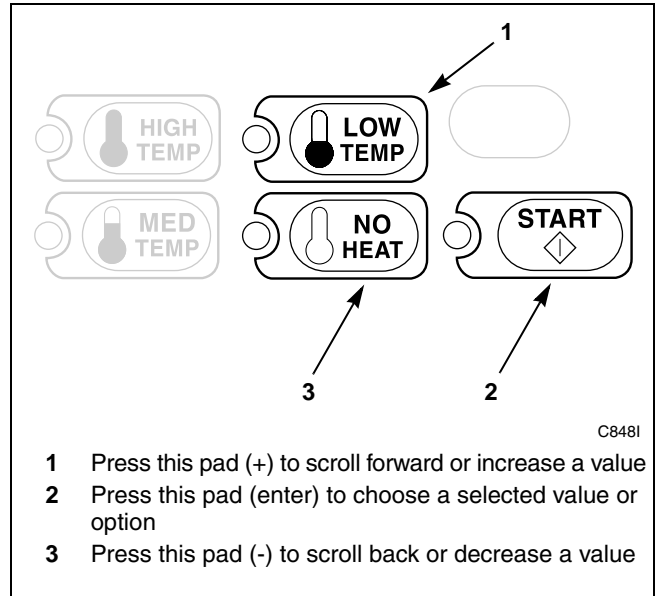


Figure 79

4. When “+019” appears in the VFD, press the START (enter) keypad. The current number of minutes set for Special Vend A No Heat Time Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) 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: Special Vend A No Heat Time Minutes can be set from one (1) to 99 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, “+020”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 20. Special Vend A No Heat Time Seconds +020

This option allows the owner to set the amount of time in seconds for the no heat cycle in Special Vend A.

### How to Program Special Vend A No Heat Time Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

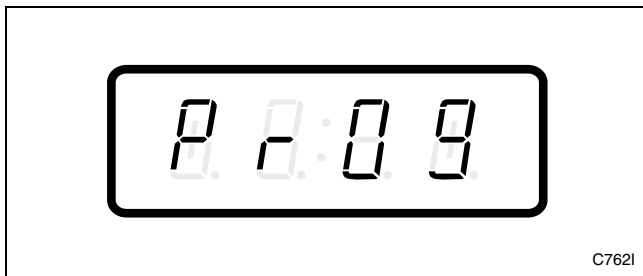


Figure 81

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+020” appears in the VFD. Refer to *Figure 82*.

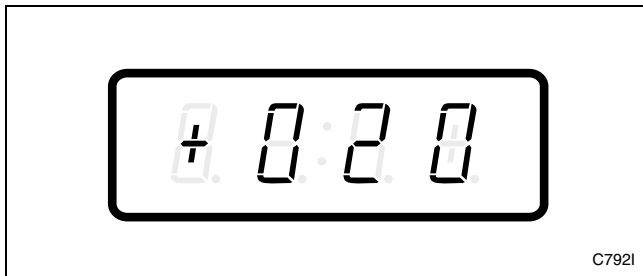


Figure 82

4. When “+020” appears in the VFD, press the START (enter) keypad. The current number of seconds set for Special Vend A No Heat Time Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 83*.

**NOTE: Special Vend A No Heat Time Seconds can be set from zero (0) to 59 seconds.**

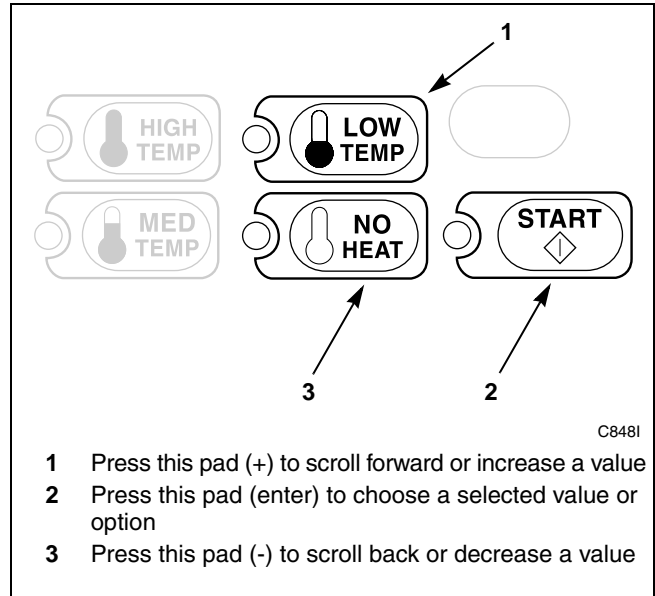


Figure 83

- 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

6. Press the START (enter) keypad when the correct number of seconds appears in the VFD. The next option, “+021”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 21. Special Vend A Coin #1 TopOff Minutes +021

This option allows the owner to set the amount of topoff time in minutes for the Special Vend A Coin #1 option.

### How to Program Special Vend A Coin #1 TopOff Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

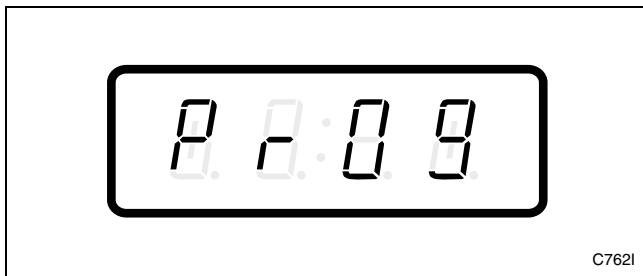


Figure 84

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+021” appears in the VFD. Refer to *Figure 85*.

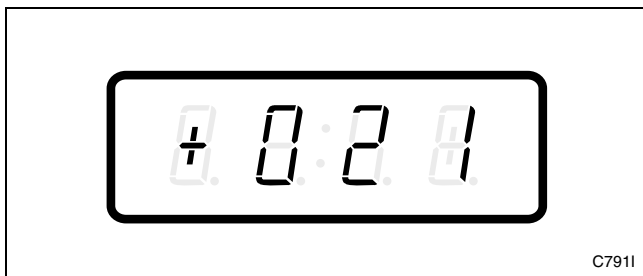
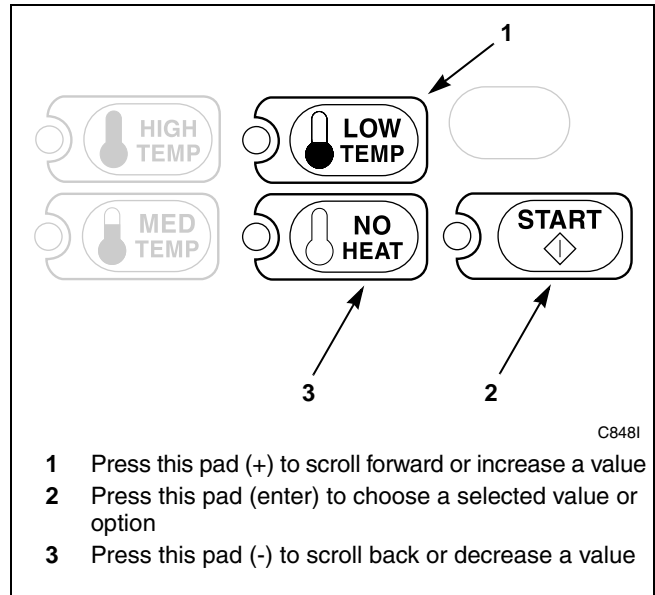


Figure 85

4. When “+021” appears in the VFD, press the START (enter) keypad. The current number of minutes set for Special Vend A Coin #1 TopOff Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 86*.

**NOTE: Special Vend A Coin #1 TopOff Minutes can be set from one (1) to 59 minutes. The maximum amount of time including the topoff time is 99 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 86

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+022”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 22. Special Vend A Coin #1 TopOff Seconds +022

This option allows the owner to set the amount of tophoff time in seconds for the Special Vend A Coin #1 option.

### How to Program Special Vend A Coin #1 TopOff Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

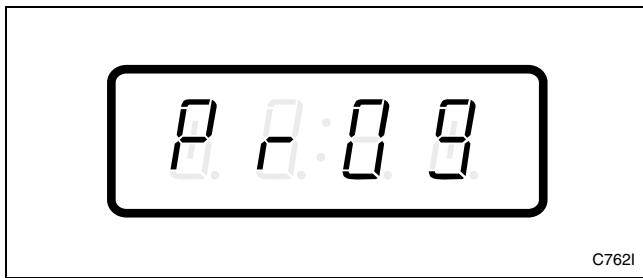


Figure 87

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+022” appears in the VFD. Refer to *Figure 88*.

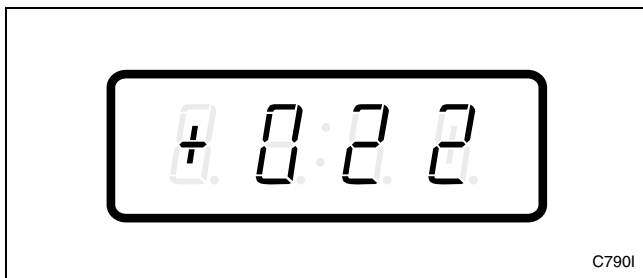


Figure 88

4. When “+022” appears in the VFD, press the START (enter) keypad. The current number of seconds set for Special Vend A Coin #1 TopOff Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 89*.

**NOTE: Special Vend A Coin #1 TopOff Seconds can be set from zero (0) to 59 seconds.**

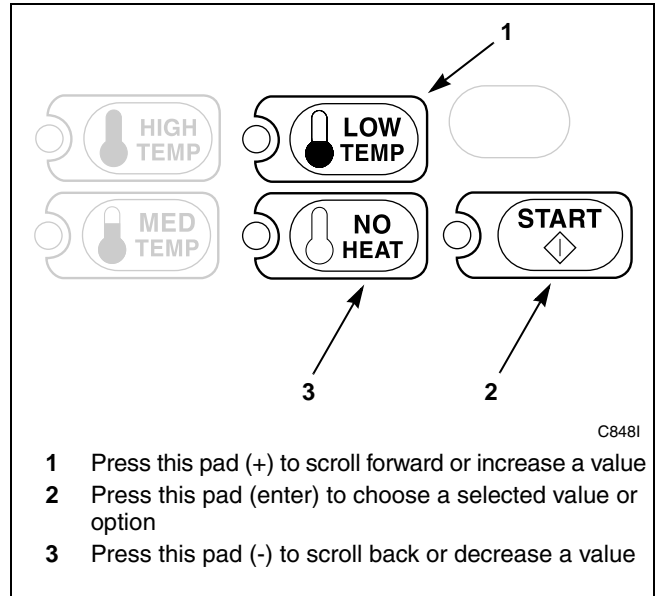


Figure 89

6. Press the START (enter) keypad when the correct number of seconds appears in the VFD. The next option, “+023”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 23. Special Vend A Coin #2 TopOff Minutes +023

This option allows the owner to set the amount of tophoff time in minutes for the Special Vend A Coin #2 option.

#### How to Program Special Vend A Coin #2 TopOff Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

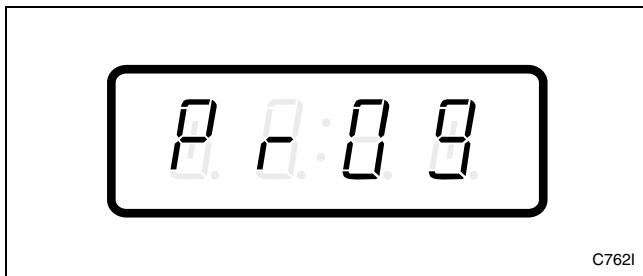


Figure 90

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+023” appears in the VFD. Refer to *Figure 91*.

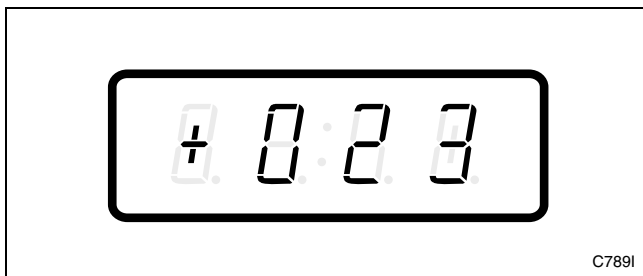


Figure 91

4. When “+023” appears in the VFD, press the START (enter) keypad. The current number of minutes set for Special Vend A Coin #2 TopOff Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) 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: Special Vend A Coin #2 TopOff Minutes can be set from one (1) to 99 minutes.**

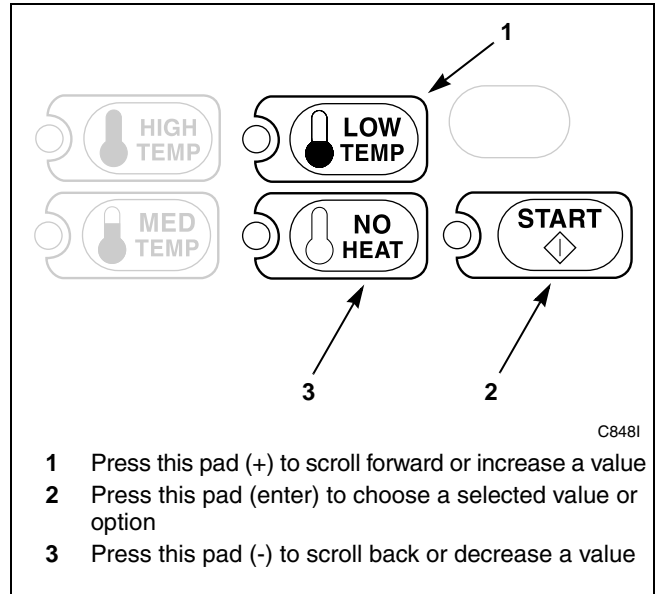


Figure 92

- 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

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+024”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 24. Special Vend A Coin #2 TopOff Seconds +024

This option allows the owner to set the amount of tophoff time in seconds for the Special Vend A Coin #2 option.

### How to Program Special Vend A Coin #2 TopOff Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

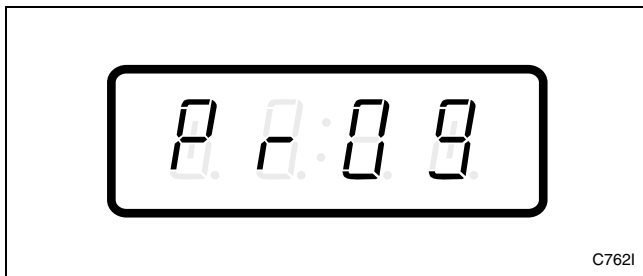


Figure 93

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+024” appears in the VFD. Refer to *Figure 94*.

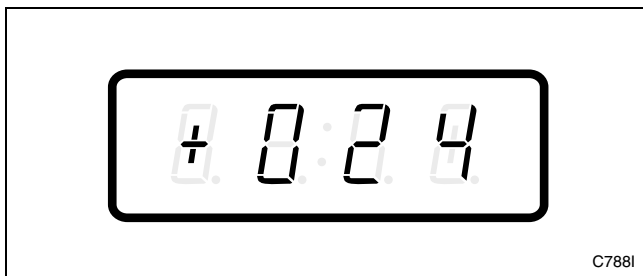
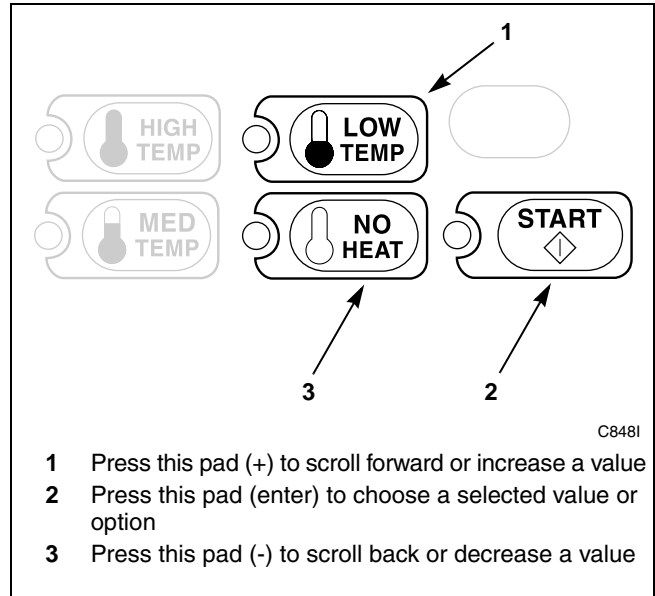


Figure 94

4. When “+024” appears in the VFD, press the START (enter) keypad. The current number of seconds set for Special Vend A Coin #2 TopOff Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 95*.

**NOTE: Special Vend A Coin #2 TopOff Seconds can be set from zero (0) to 59 seconds.**



- 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 seconds appears in the VFD. The next option, “+025”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



## 25. Special Vend A Auto-Shutdown Enable +025

This option, when turned on, will force the control to shutdown during the Programmed Special Vend A time period, preventing customers from starting a new cycle after a selected time. "OFF" is displayed on the VFD when Auto-Shutdown is active.

### How to Program Special Vend A Auto-Shutdown Enable

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

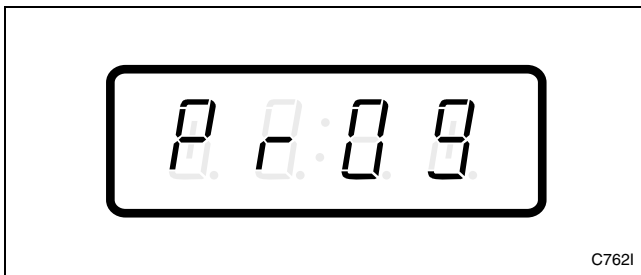


Figure 96

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until "+025" appears in the VFD. Refer to *Figure 97*.

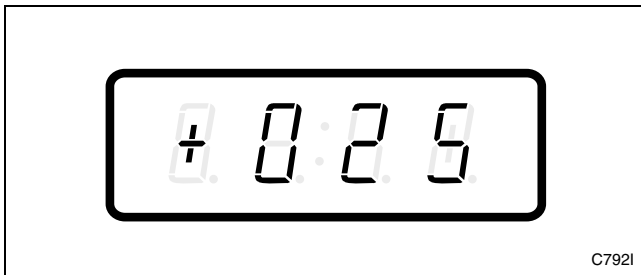
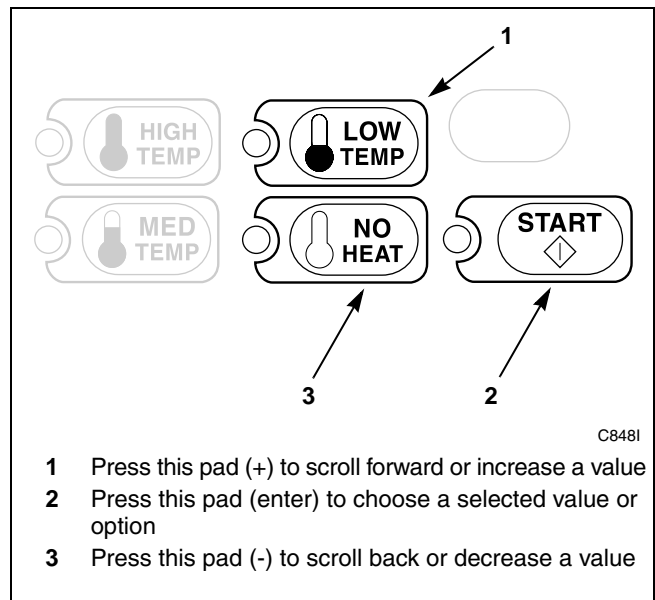


Figure 97

4. When "+025" appears in the VFD, press the START (enter) keypad. The current Special Vend A Auto-Shutdown Enable parameter value will appear in the VFD. "0" will be displayed when Auto-Shutdown is disabled and "255" will be displayed when Auto-Shutdown is enabled.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current value displayed in the VFD to the desired value. 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 value appears in the VFD. The next option, "+026", will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 26. Coin #1 Amount +026

This option allows the owner to set a specific numerical value for a coin entered. For example, in the United States the coin value for one quarter would be measured in cents (25). Therefore, the coin amount entered for one quarter would be 00025.

If the Heat Vend Price is set for “.75”, and the Coin Amount is set for “00025”, the vend price displayed will decrease by .25 for each coin entered.

### How to Program Coin #1 Amount

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

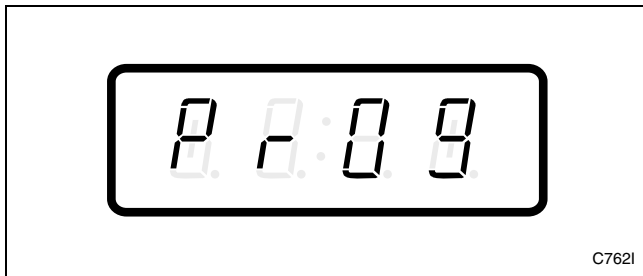


Figure 99

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+026” appears in the VFD. Refer to *Figure 100*.

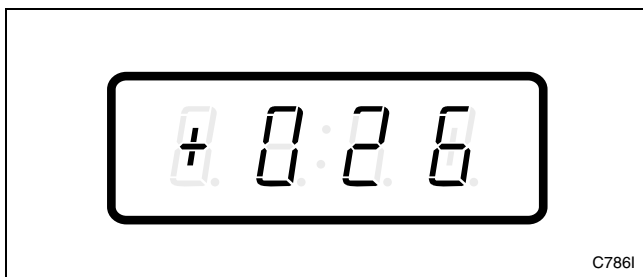


Figure 100

4. When “+026” appears in the VFD, press the START (enter) keypad. There are five digits in the Coin #1 Amount. The fifth digit will appear in the VFD and will flash one second on and one second off. Refer to *Figure 101*.

**NOTE: If coin amount is \$100.00 or more, the fifth digit is “1”. If coin amount is \$99.99 or less, the fifth digit is “0”.**

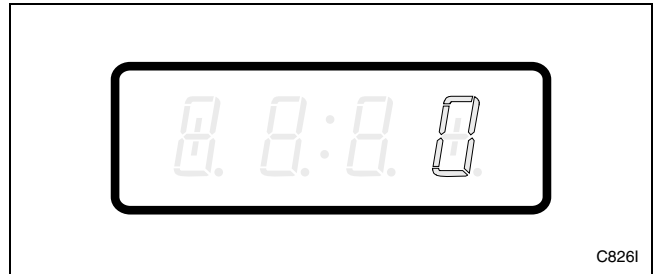
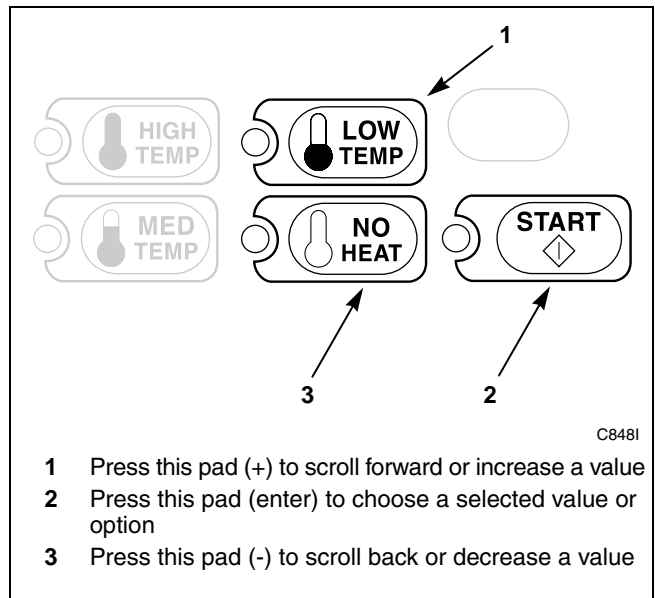


Figure 101

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 102*.

**NOTE: The coin amount can be set from 1 to 65,535.**



- 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 102

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 103*.



Figure 103

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+027”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 27. Coin #2 Amount +027

This option allows the owner to set a specific numerical value for a coin entered when using the dual coin drop. For example, the coin value for a dollar coin would be measured in cents (100). Therefore, the coin amount entered for one dollar coin would be 00100.

If the Heat Vend Price is set for “2.00”, and the Coin Amount is set for “00100”, the vend price displayed will decrease by 1.00 for each dollar coin entered.

### How to Program Coin #2 Amount

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

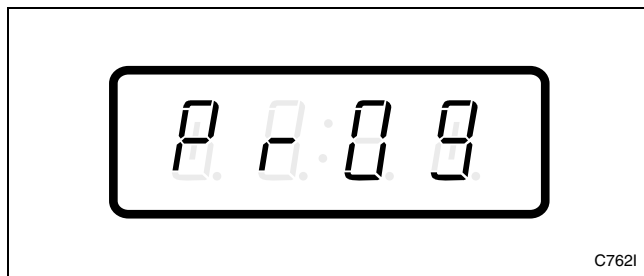


Figure 104

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+027” appears in the VFD. Refer to *Figure 105*.

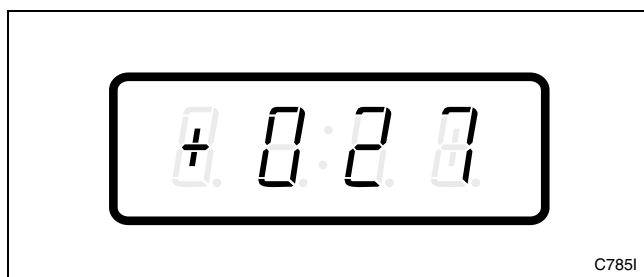


Figure 105

4. When “+027” appears in the VFD, press the START (enter) keypad. There are five digits in the Coin #2 Amount. The fifth digit will appear in the VFD and will flash one second on and one second off. Refer to *Figure 106*.

**NOTE: If coin amount is \$100.00 or more, the fifth digit is “1”. If coin amount is \$99.99 or less, the fifth digit is “0”.**

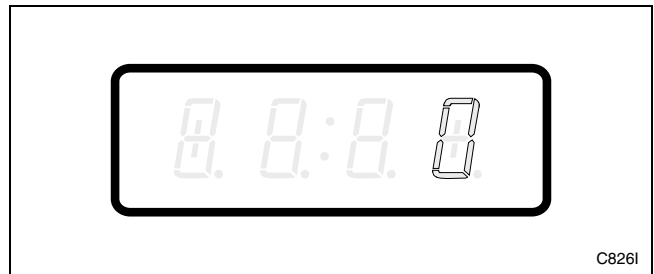
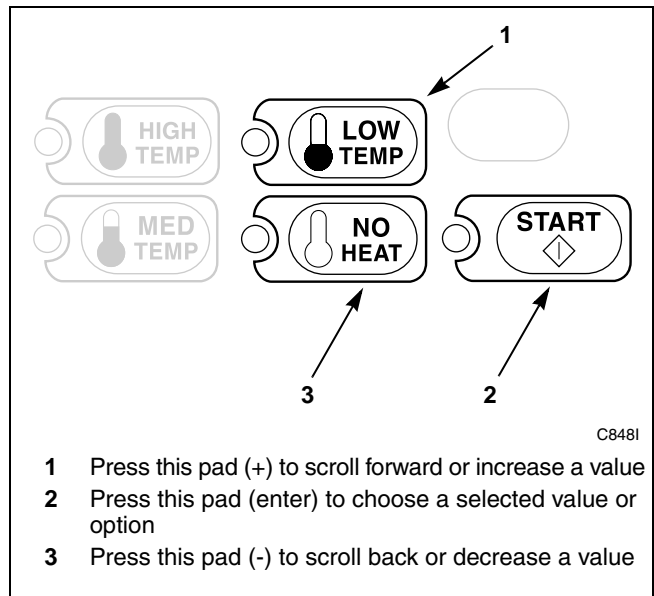


Figure 106

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 107*.

**NOTE: The coin amount can be set from 1 to 65,535.**



- 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 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 108*.

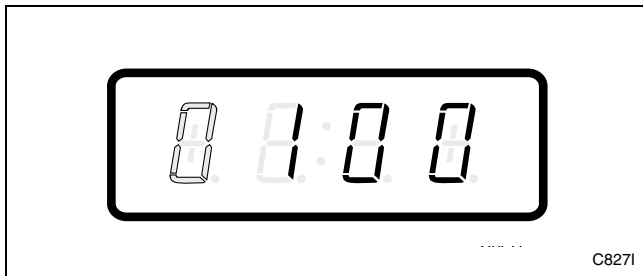


Figure 108

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+028”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 28. Start Pulse Value +028

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 *Start Pulse Mode +065* 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 LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

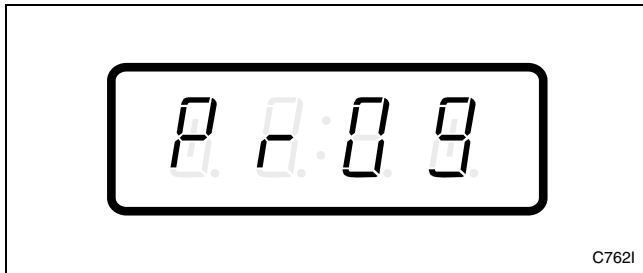


Figure 109

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+028” appears in the VFD. Refer to *Figure 110*.

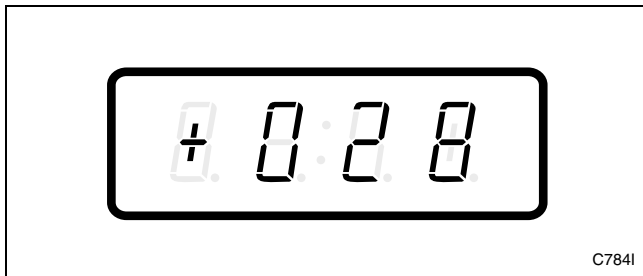


Figure 110

4. When “+028” 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 111*.

**NOTE: If Start Pulse value is \$100.00 or more, the fifth digit is “1”. If Start Pulse value is \$99.99 or less, the fifth digit is “0”.**

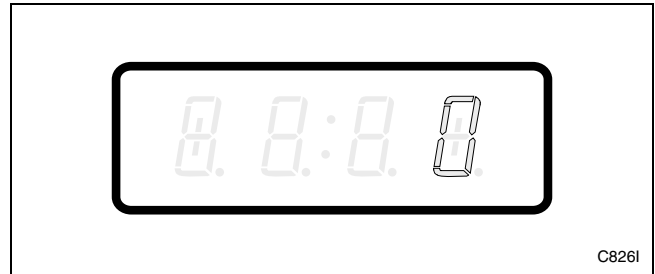
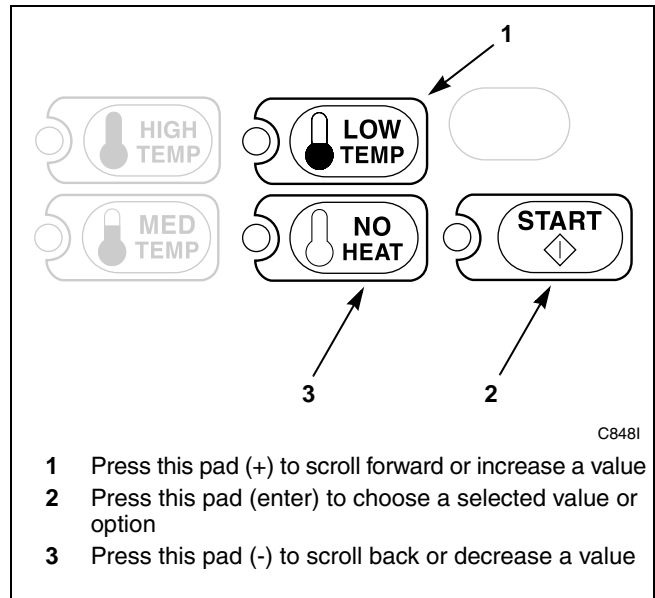


Figure 111

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 112*.

**NOTE: The Start Pulse value can be set from 1 to 65,535.**



- 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 112

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 113*.

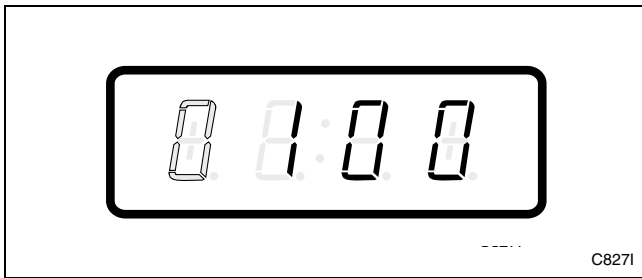


Figure 113

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+029”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 29. Power Fail Reset +029

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 setting for Power Fail Reset is 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 LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

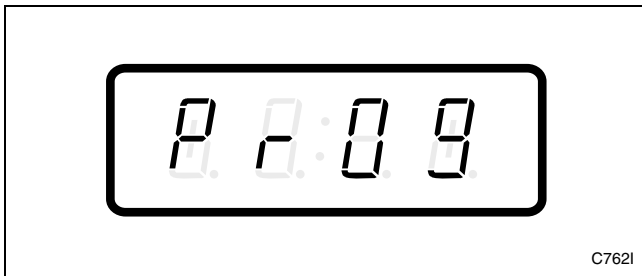


Figure 114

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+029” appears in the VFD. Refer to *Figure 115*.

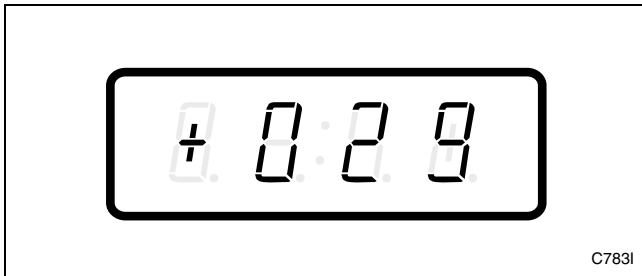
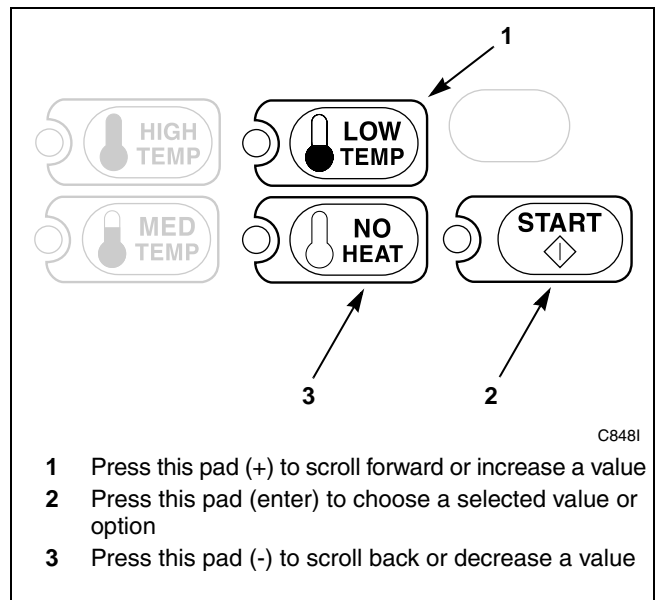


Figure 115

4. When “+029” 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 LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number to the desired number selected from *Table 3*. 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, “+030”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



**How to Read Table 3**

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.

<b>Power Fail Reset</b>	
<b>NUMBER TO ENTER IN STEP 6</b>	<b>POWER FAIL RESET TIME</b>
000 – 127 (005*)	Turned OFF Cycle will be saved for a minimum of 6 years
133	5 minutes without power before cycle is lost
. . . add one minute for every number up to	
255	127 minutes without power before cycle is lost

\* Factory default setting

Table 3

### 30. Default Cycle +030

This option allows the owner to set the default cycle the machine will enter when in the Ready Mode. When programming the default cycle, refer to *Table 4* on the following page.

#### How to Program Default Cycle

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

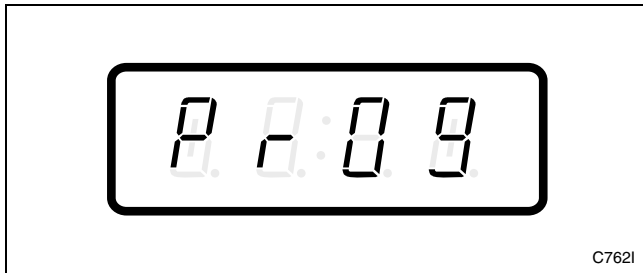


Figure 117

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+030” appears in the VFD. Refer to *Figure 118*.

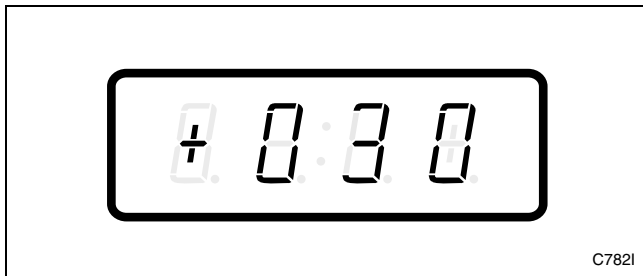
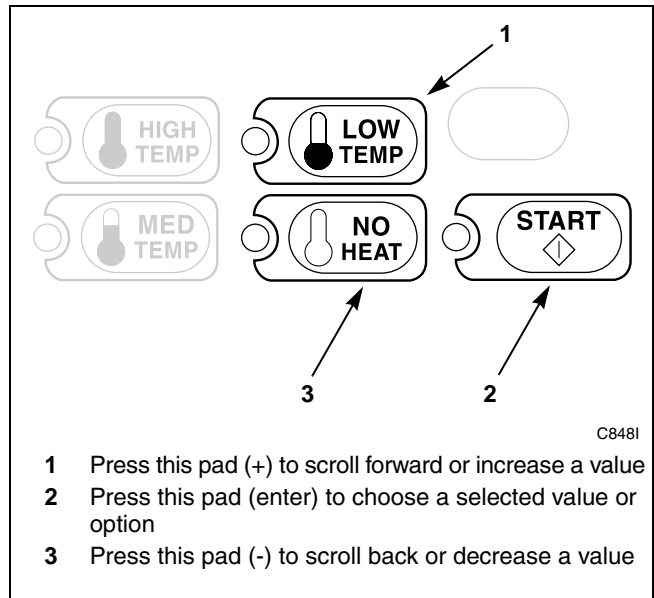


Figure 118

4. When “+030” appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current default cycle value.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number to the desired number selected from *Table 4* on the following page. Refer to *Figure 119*.



- 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, “+031”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

**How to Read Table 4**

To determine the correct number required to program Default Cycle, use the following table. The Default Value column contains the number required in Step 5. The other columns correspond to individual options.

Each column of options contains a unique combination of the words “ON” and “OFF” that indicates if that column’s option is turned on or off when the Default Value is entered. Select the desired combination of options and enter the number found in the Default Value column.

Default Cycle				
Default Value	HIGH TEMP	MED TEMP	LOW TEMP	NO HEAT
1	OFF	OFF	OFF	ON
2	OFF	OFF	ON	OFF
4*	OFF	ON	OFF	OFF
8	ON	OFF	OFF	OFF

\* Factory default setting

Table 4

### 31. Set Real-Time Clock Minutes +031

This option allows the owner to set NetMaster’s internal clock to the correct time in minutes.

#### How to Program the Clock Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

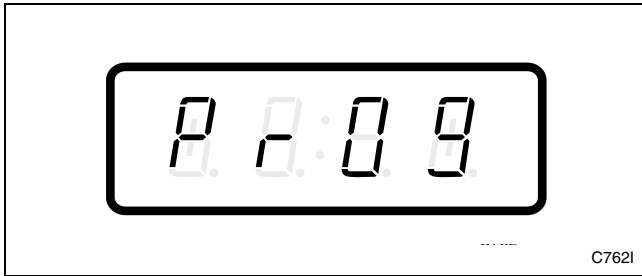


Figure 120

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+031” appears in the VFD. Refer to *Figure 121*.

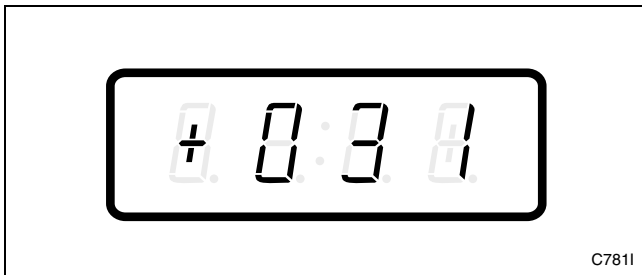


Figure 121

4. When “+031” appears in the VFD, press the START (enter) keypad. The current time in minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the minutes to the correct time. Refer to *Figure 122*.

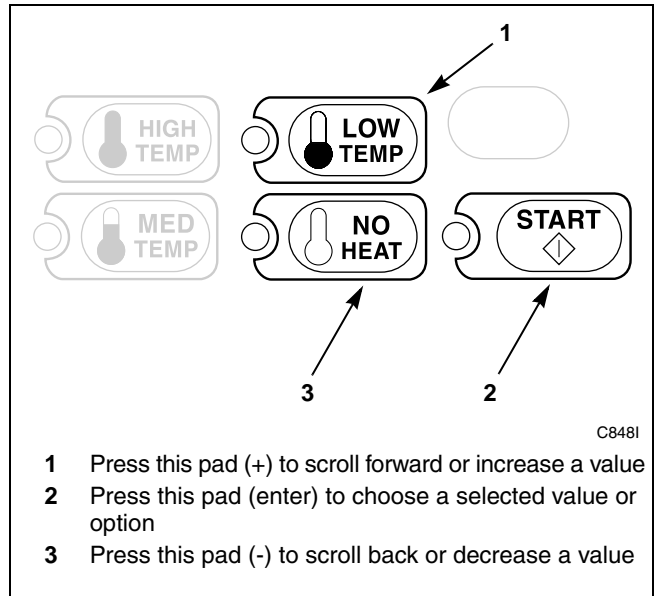


Figure 122

6. Press the START (enter) keypad when the correct time in minutes appears in the VFD. The next option, “+032”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 32. Set Real-Time Clock Hours +032

This option allows the owner to set NetMaster's internal clock to the correct time in hours.

#### How to Program the Clock Hours

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

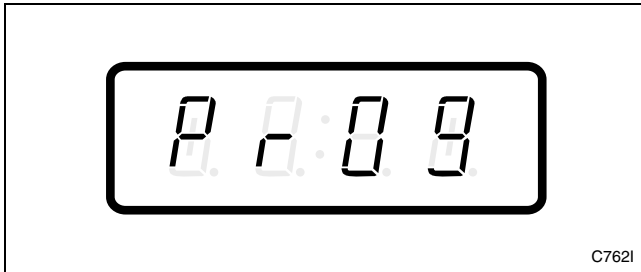


Figure 123

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until "+032" appears in the VFD. Refer to *Figure 124*.

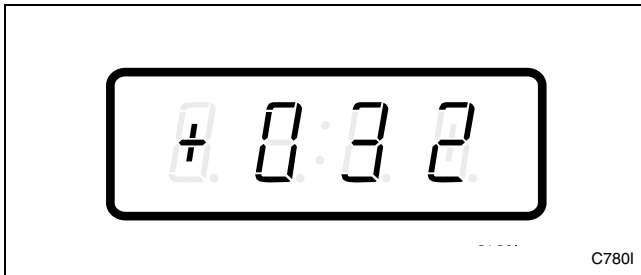
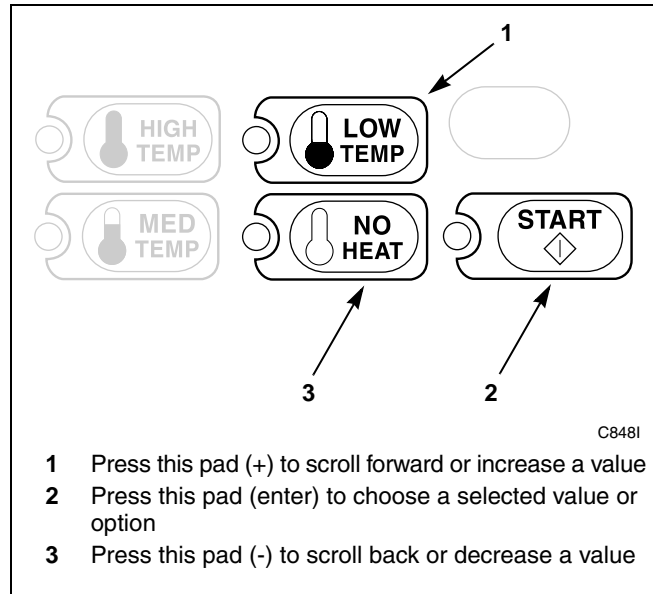


Figure 124

4. When "+032" appears in the VFD, press the START (enter) keypad. The current time in hours will appear in the VFD.

**NOTE: The hours will be displayed in military time.**

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the hours to the correct time. Refer to *Figure 125*.



- 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 time in hours appears in the VFD. The next option, "+033", will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 33. Set Real-Time Clock Day +033

This option allows the owner to set NetMaster’s internal clock to the correct day of the week.

#### How to Program the Clock Day

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

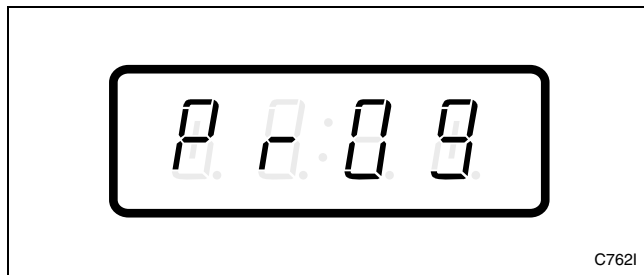


Figure 126

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+033” appears in the VFD. Refer to *Figure 127*.

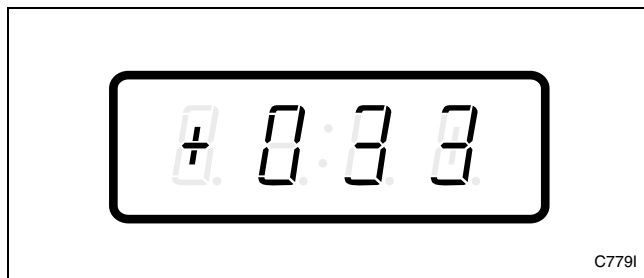
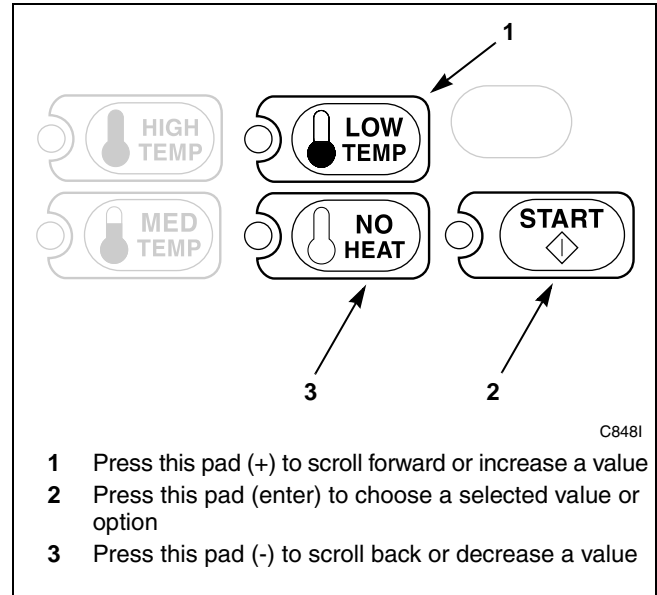


Figure 127

4. When “+033” appears in the VFD, press the START (enter) keypad. The current day of the week will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the day until correct. Refer to *Figure 128*.

**NOTE: Sunday is considered day one (001), Monday is day two (002) and so on.**



- 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

6. Press the START (enter) keypad when the correct day appears in the VFD. The next option, “+034”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 34. Set Real-Time Clock Date +034

This option allows the owner to set NetMaster's internal clock to the correct day of the month.

#### How to Program the Clock Date

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

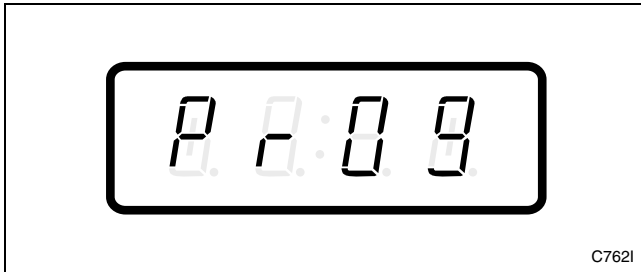


Figure 129

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until "+034" appears in the VFD. Refer to *Figure 130*.

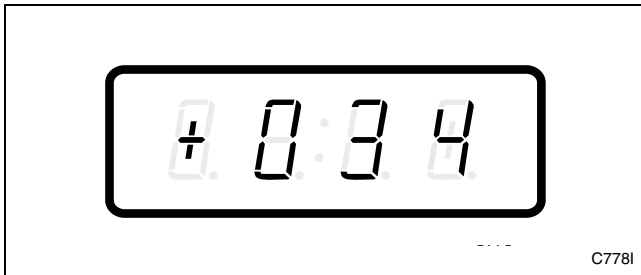
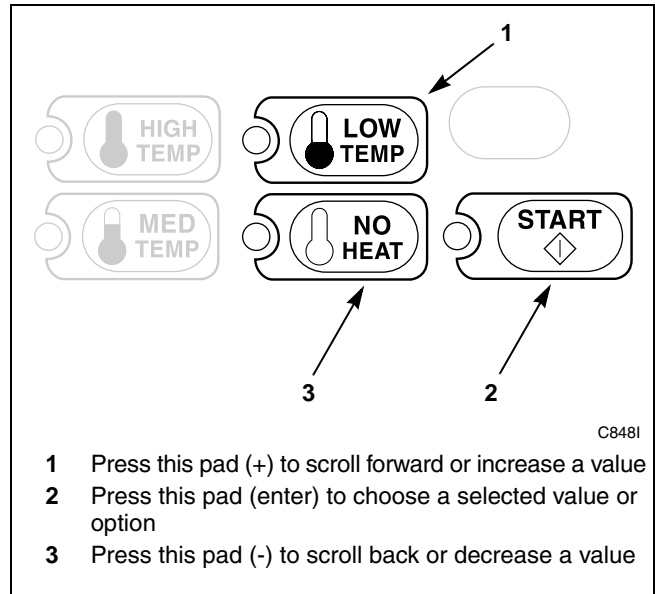


Figure 130

4. When "+034" appears in the VFD, press the START (enter) keypad. The current day of the month will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the day of the month 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

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

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 35. Set Real-Time Clock Month +035

This option allows the owner to set NetMaster’s internal clock to the correct month.

#### How to Program the Clock Month

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

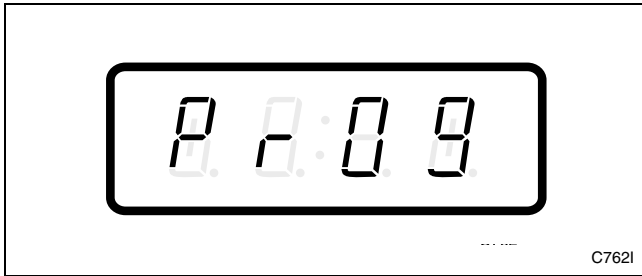


Figure 132

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+035” appears in the VFD. Refer to *Figure 133*.

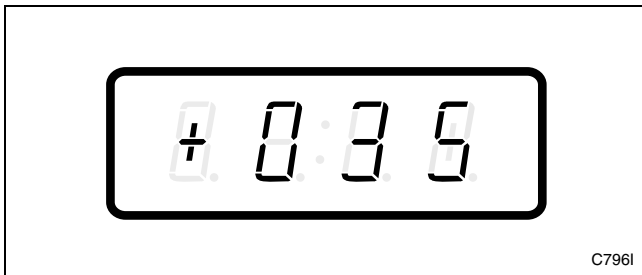


Figure 133

4. When “+035” appears in the VFD, press the START (enter) keypad. The current month will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the month until correct. Refer to *Figure 134*.

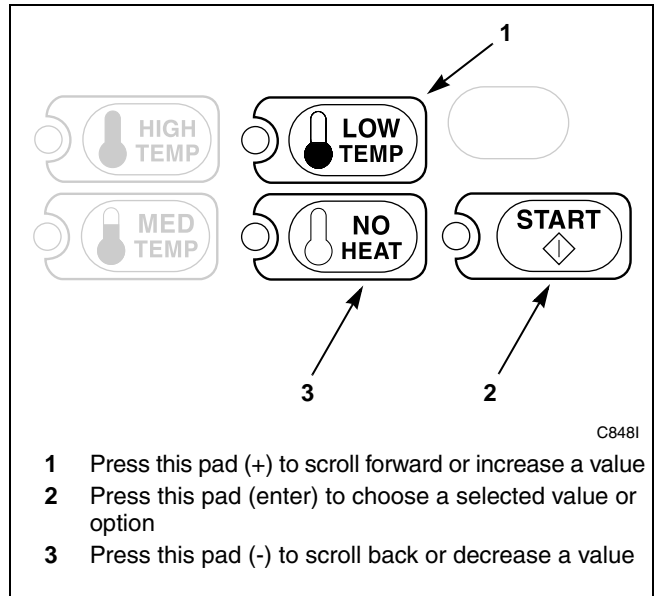


Figure 134

6. Press the START (enter) keypad when the correct month appears in the VFD. The next option, “+036”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



### 36. Set Real-Time Clock Year +036

This option allows the owner to set NetMaster's internal clock to the correct year.

#### How to Program the Clock Year

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until "PrOg" appears in the VFD. Press the START (enter) keypad and "+001" will appear in the VFD.

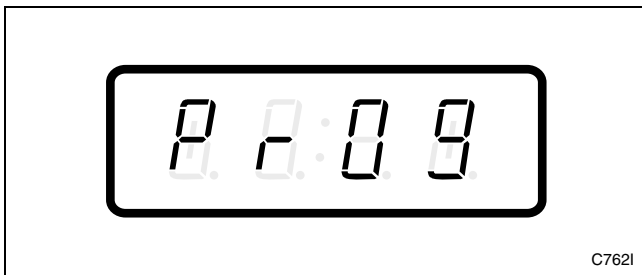


Figure 135

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until "+036" appears in the VFD. Refer to *Figure 136*.

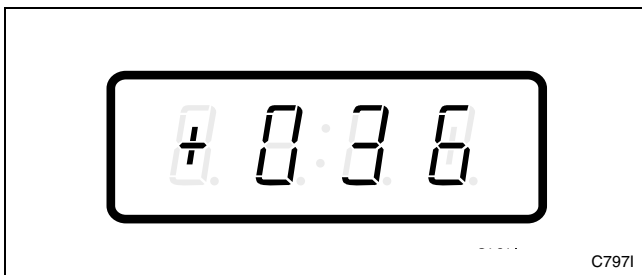
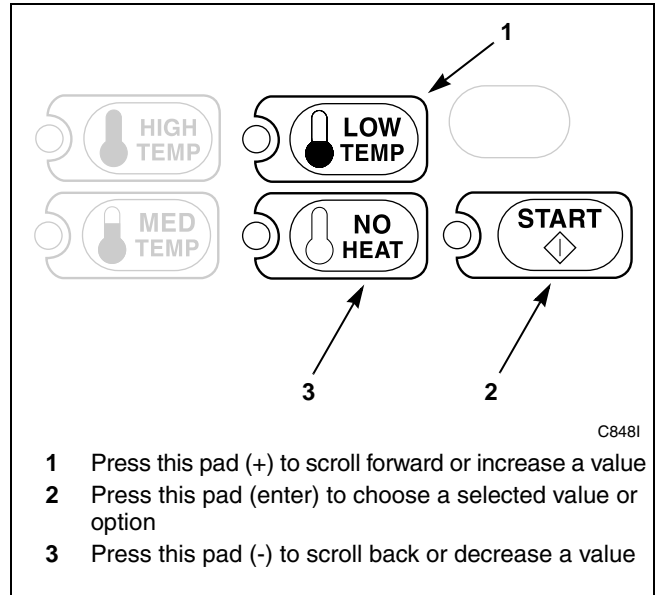


Figure 136

4. When "+036" appears in the VFD, press the START (enter) keypad. The current year will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the year until correct. Refer to *Figure 137*.

**NOTE:** The year 2000 is 00, the year 2001 is 01 and so on.



- 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

6. Press the START (enter) keypad when the correct year appears in the VFD. The next option, "+037", will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 37. Set Real-Time Clock Century +037

This option allows the owner to set NetMaster’s internal clock to the correct century.

#### How to Program the Clock Century

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

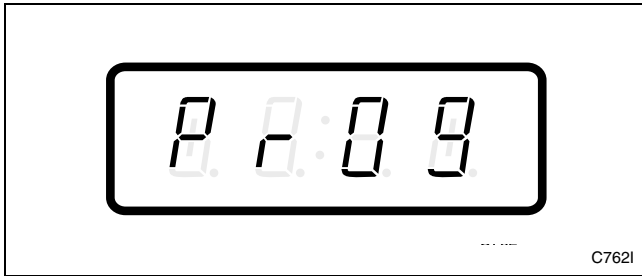


Figure 138

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+037” appears in the VFD. Refer to *Figure 139*.

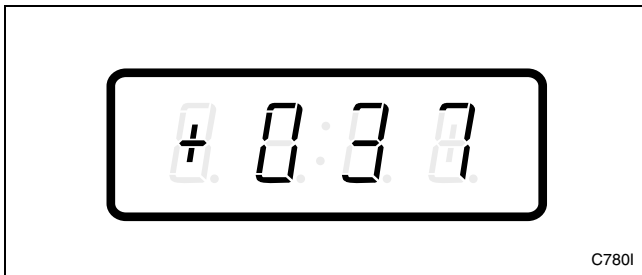
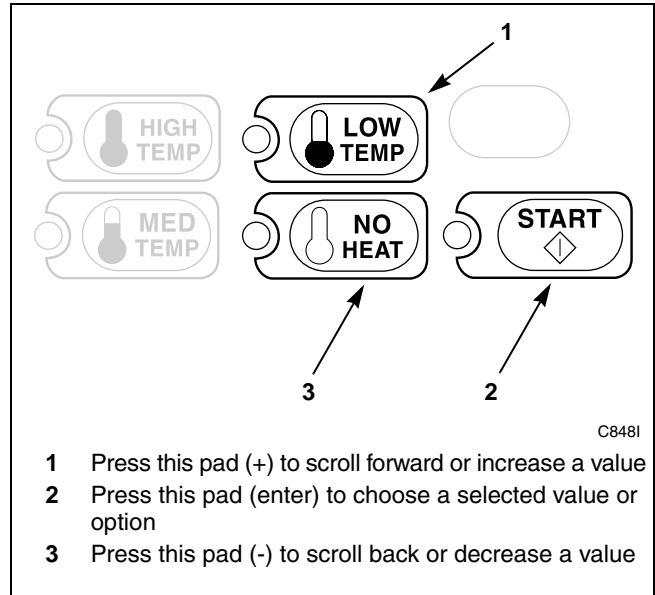


Figure 139

4. When “+037” appears in the VFD, press the START (enter) keypad. The current century will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the century until correct. Refer to *Figure 140*.

**NOTE: The digits 20 are used for century.**



- 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

6. Press the START (enter) keypad when the correct century appears in the VFD. The next option, “+038”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 38. Heat Cycle Time Minutes +038

This option allows the owner to set the amount of time in minutes for the Heat cycles.

#### How to Program Heat Cycle Time Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

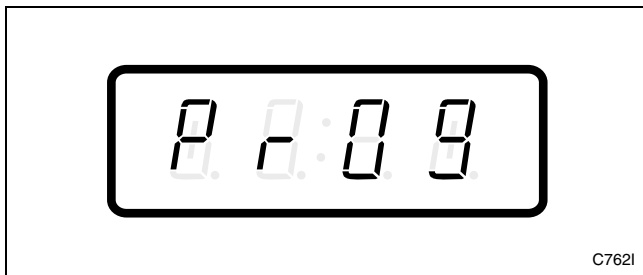


Figure 141

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+038” appears in the VFD. Refer to *Figure 142*.

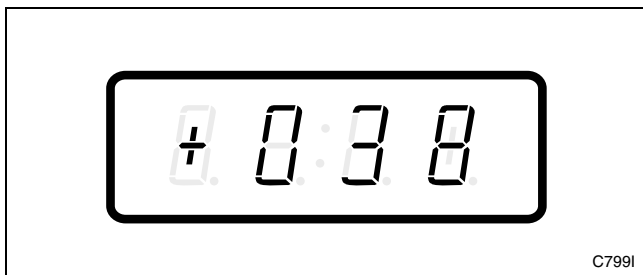
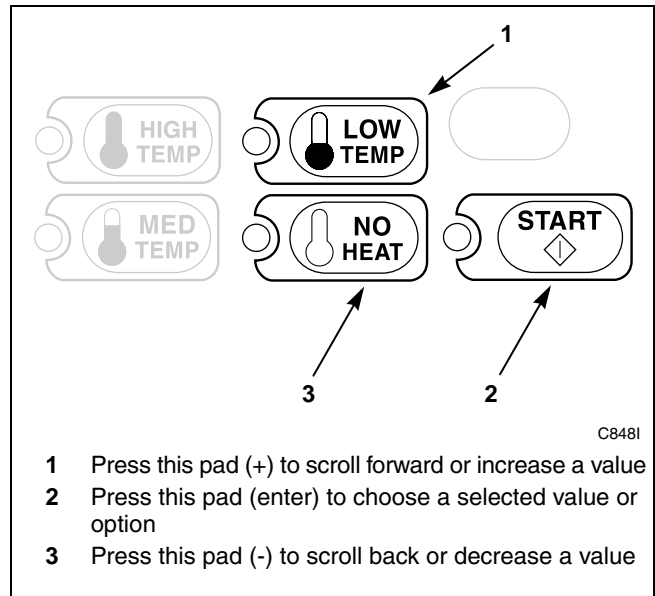


Figure 142

4. When “+038” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Heat Cycle Time Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 143*.

**NOTE: The Heat Cycle Time Minutes can be set from one (1) to 99 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 143

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+039”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 39. Heat Cycle Time Seconds +039

This option allows the owner to set the amount of time in seconds for the Heat cycles.

#### How to Program Heat Cycle Time Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

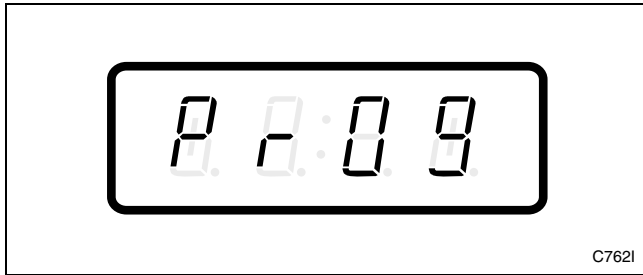


Figure 144

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+039” appears in the VFD. Refer to *Figure 145*.

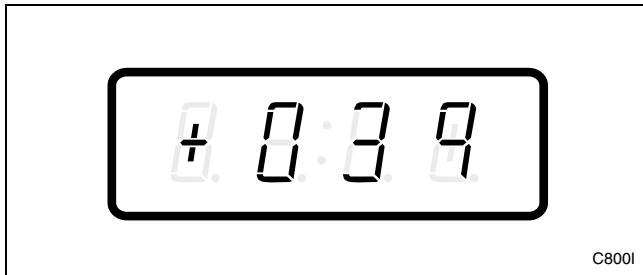
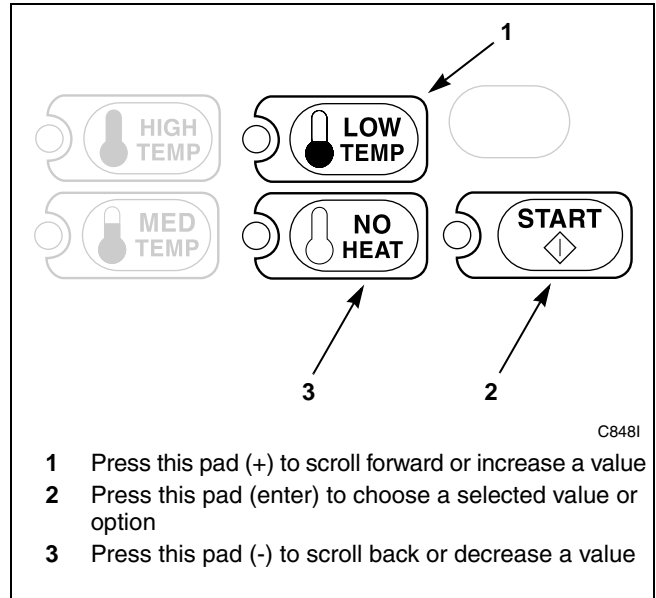


Figure 145

4. When “+039” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the Heat Cycle Time Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 146*.

**NOTE: The Heat Cycle Time Seconds can be set from zero (0) to 59 seconds.**



- 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 number of seconds appears in the VFD. The next option, “+040”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 40. No Heat Cycle Time Minutes +040

This option allows the owner to set the amount of time in minutes for the No Heat cycle.

### How to Program No Heat Cycle Time Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

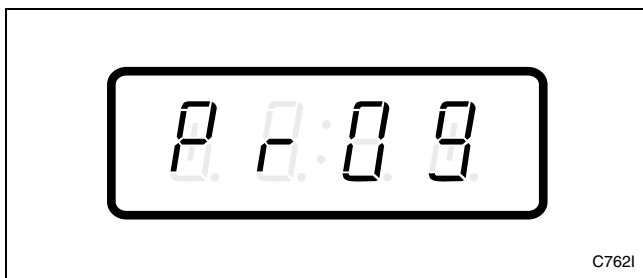


Figure 147

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+040” appears in the VFD. Refer to *Figure 148*.

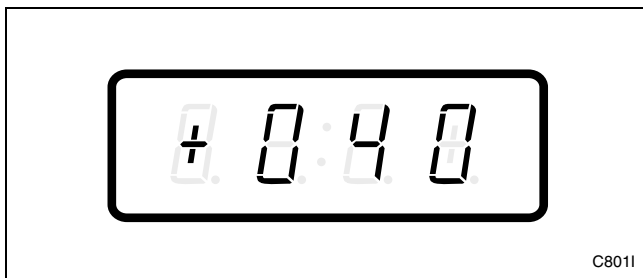


Figure 148

4. When “+040” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the No Heat Cycle Time Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 149*.

**NOTE: The No Heat Cycle Time Minutes can be set from one (1) to 99 minutes.**

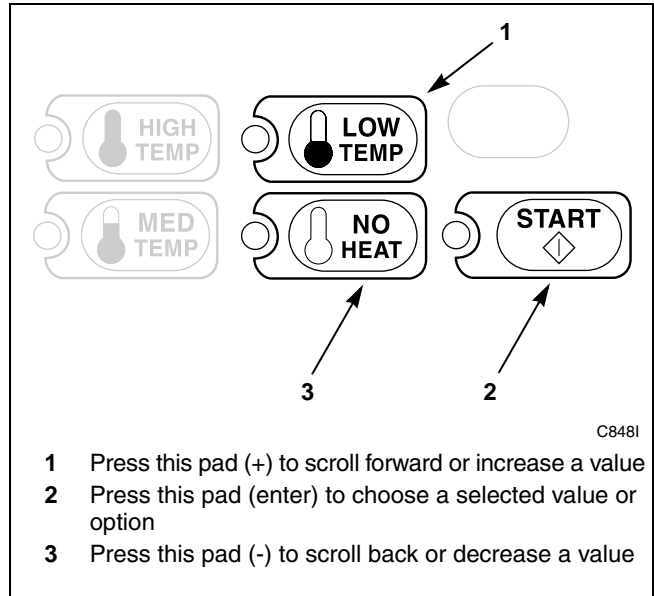


Figure 149

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+041”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 41. No Heat Cycle Time Seconds +041

This option allows the owner to set the amount of time in seconds for the No Heat cycle.

### How to Program No Heat Cycle Time Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

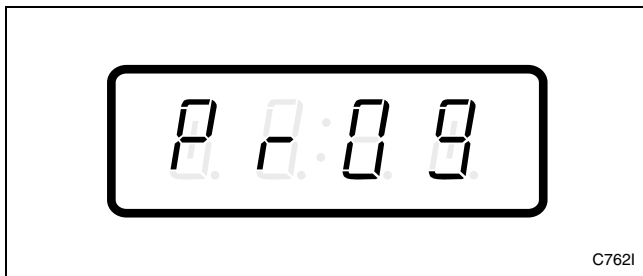


Figure 150

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+041” appears in the VFD. Refer to *Figure 151*.

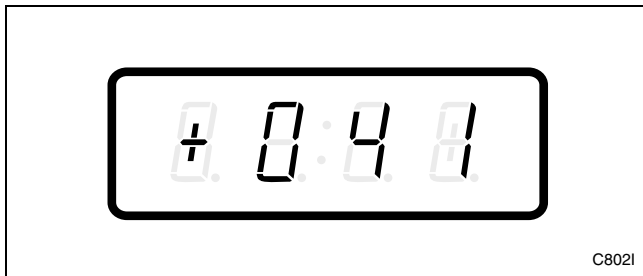
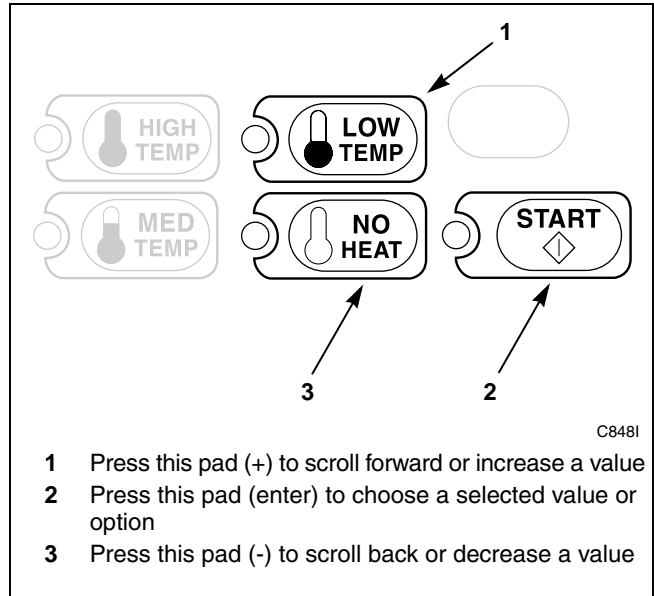


Figure 151

4. When “+041” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the No Heat Cycle Time Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 152*.

**NOTE: The No Heat Cycle Time Seconds can be set from zero (0) to 59 seconds.**



- 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 number of minutes appears in the VFD. The next option, “+042”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 42. High Temp Cool Down Time +042

This option allows the owner to set the amount of cool down time in minutes for the High Temp cycle.

### How to Program High Temp Cool Down Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

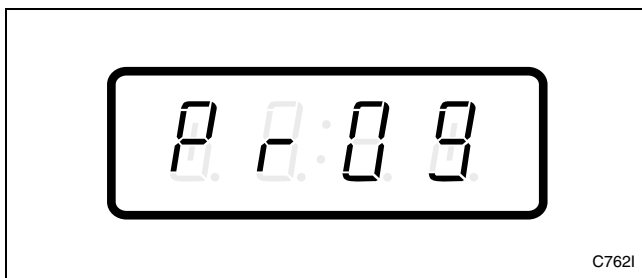


Figure 153

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+042” appears in the VFD. Refer to *Figure 154*.

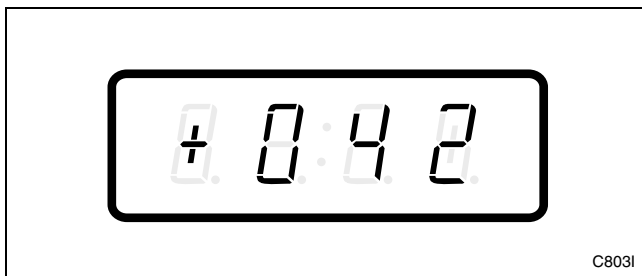
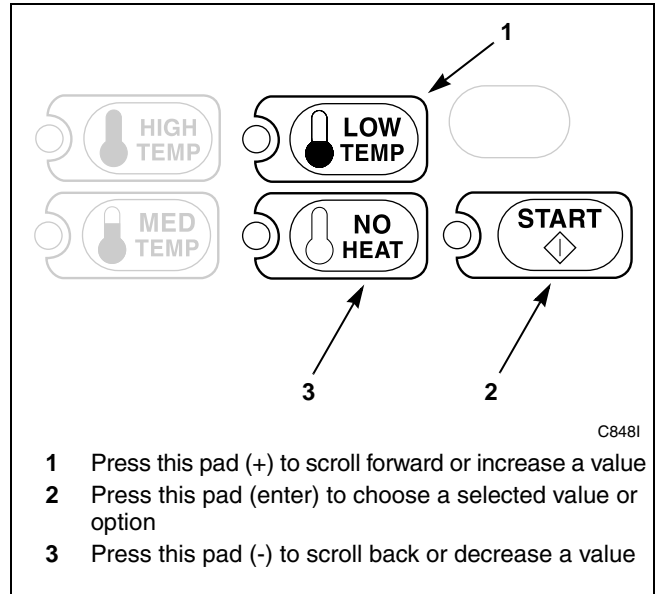


Figure 154

4. When “+042” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the High Temp Cool Down Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 155*.

**NOTE: The High Temp Cool Down Time can be set from one (1) 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 155

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+043”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 43. Medium Temp Cool Down Time +043

This option allows the owner to set the amount of cool down time in minutes for the Medium Temp cycle.

#### How to Program Medium Temp Cool Down Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

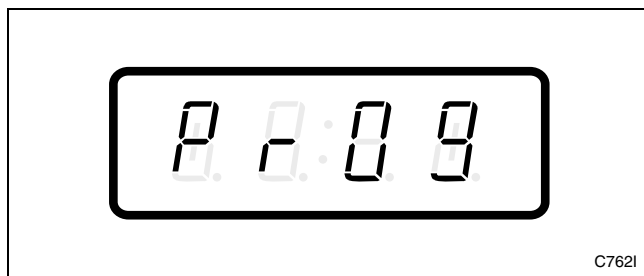


Figure 156

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+043” appears in the VFD. Refer to *Figure 157*.

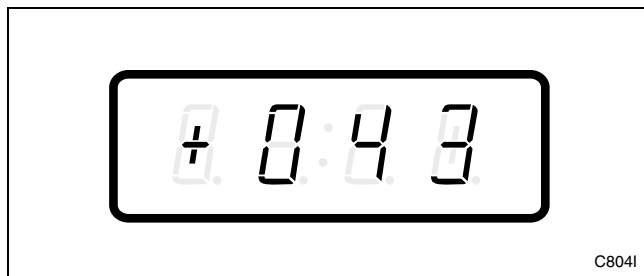
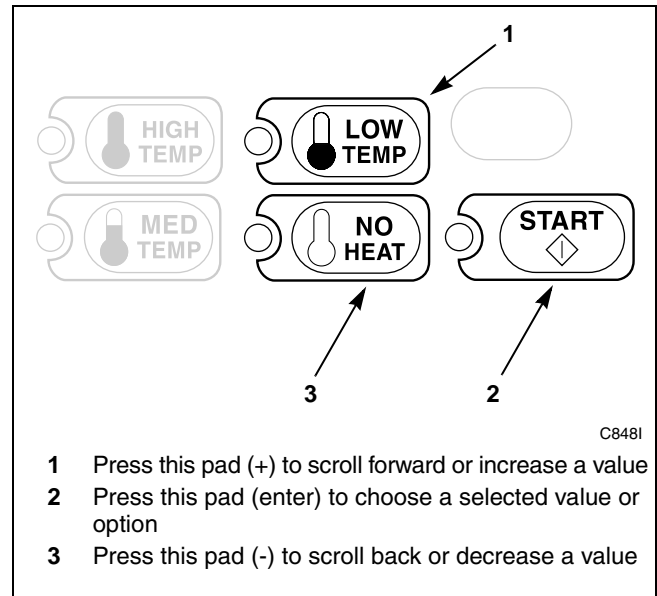


Figure 157

4. When “+043” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Medium Temp Cool Down Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 158*.

**NOTE: The Medium Temp Cool Down Time can be set from one (1) 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 158

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.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



## 44. Low Temp Cool Down Time +044

This option allows the owner to set the amount of cool down time in minutes for the Low Temp cycle.

### How to Program Low Temp Cool Down Time

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

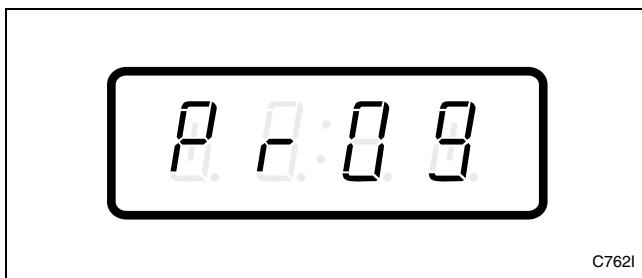


Figure 159

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+044” appears in the VFD. Refer to *Figure 160*.

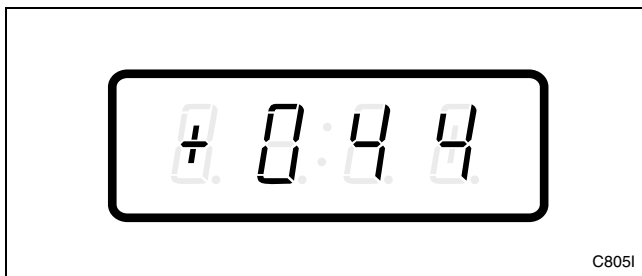
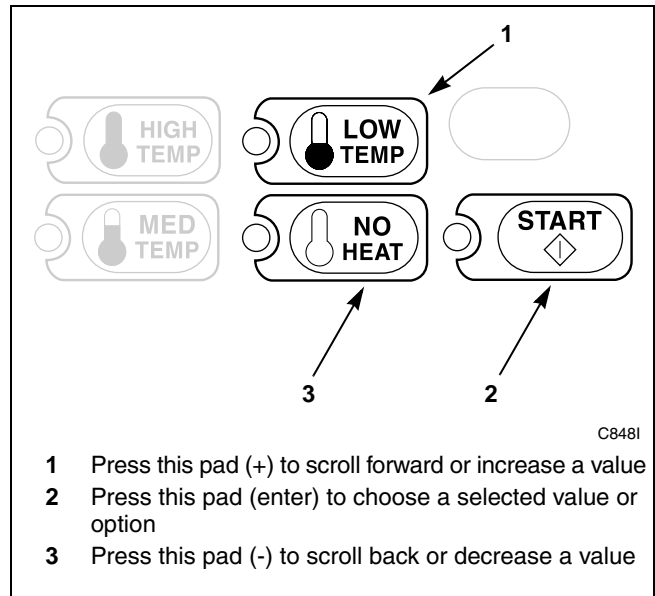


Figure 160

4. When “+044” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Low Temp Cool Down Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 161*.

**NOTE: The Low Temp Cool Down Time can be set from one (1) 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 161

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+045”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 45. Coin #1 TopOff Time (Minutes Per Coin) +045

This option allows the owner to set the amount of topoff time in minutes for the Coin #1 option.

### How to Program Coin #1 TopOff Time (Minutes Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

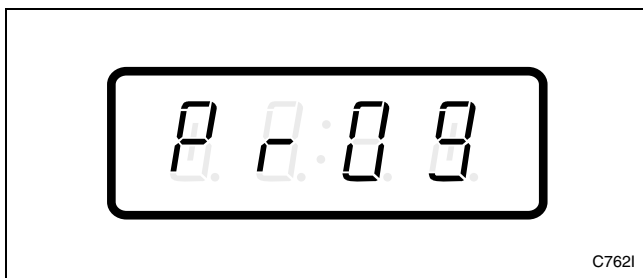


Figure 162

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+045” appears in the VFD. Refer to *Figure 163*.

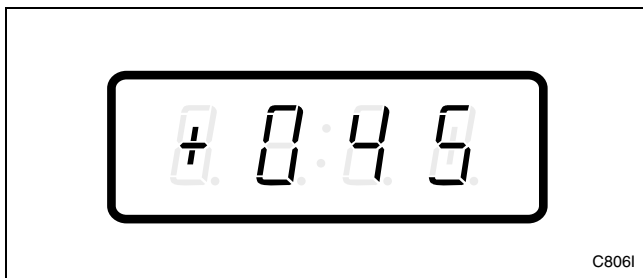
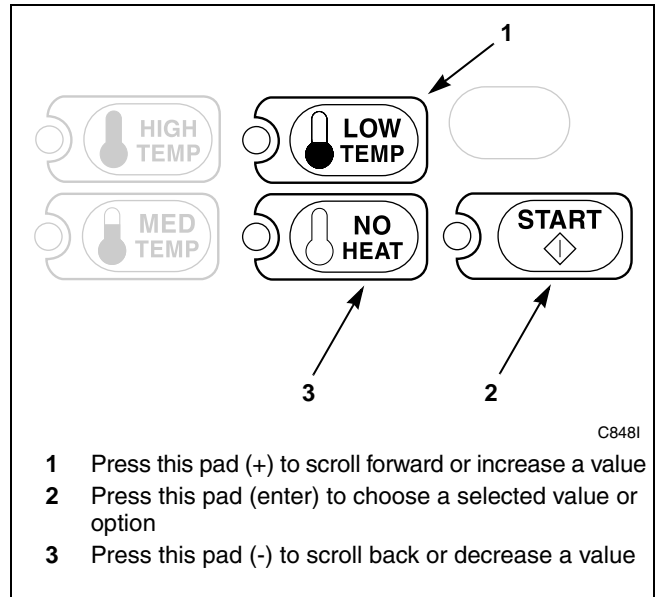


Figure 163

4. When “+045” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Coin #1 TopOff Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 164*.

**NOTE: The Coin #1 TopOff Time can be set from one (1) to 60 minutes. The maximum amount of time, including the topoff time, is 99 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 164

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+046”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 46. Coin #1 TopOff Time (Seconds Per Coin) +046

This option allows the owner to set the amount of topoff time in seconds for the Coin #1 option.

### How to Program Coin #1 TopOff Time (Seconds Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

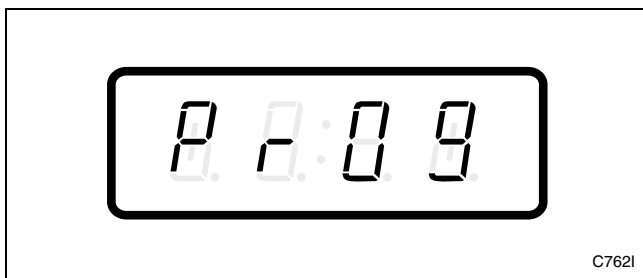


Figure 165

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+046” appears in the VFD. Refer to *Figure 166*.

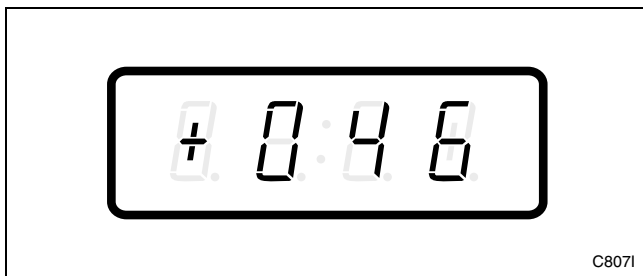
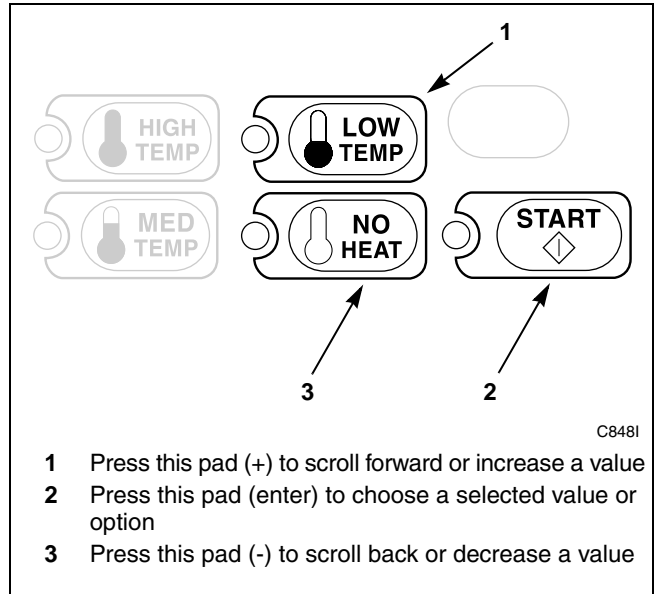


Figure 166

4. When “+046” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the Coin #1 TopOff Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 167*.

**NOTE: The Coin #1 TopOff Time can be set from zero (0) to 59 seconds.**



- 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 number of seconds appears in the VFD. The next option, “+047”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 47. Coin #2 TopOff Time (Minutes Per Coin) +047

This option allows the owner to set the amount of topoff time in minutes for the Coin #2 option.

### How to Program Coin #2 TopOff Time (Minutes Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

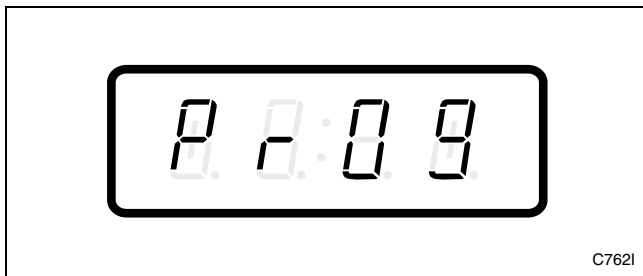


Figure 168

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+047” appears in the VFD. Refer to *Figure 169*.

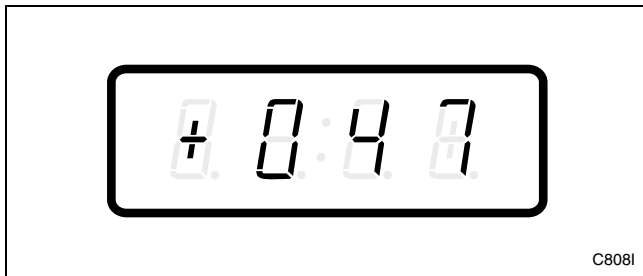


Figure 169

4. When “+047” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Coin #2 TopOff Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 170*.

**NOTE: The Coin #2 TopOff Time can be set from one (1) to 60 minutes. The maximum amount of time, including the topoff time, is 99 minutes.**

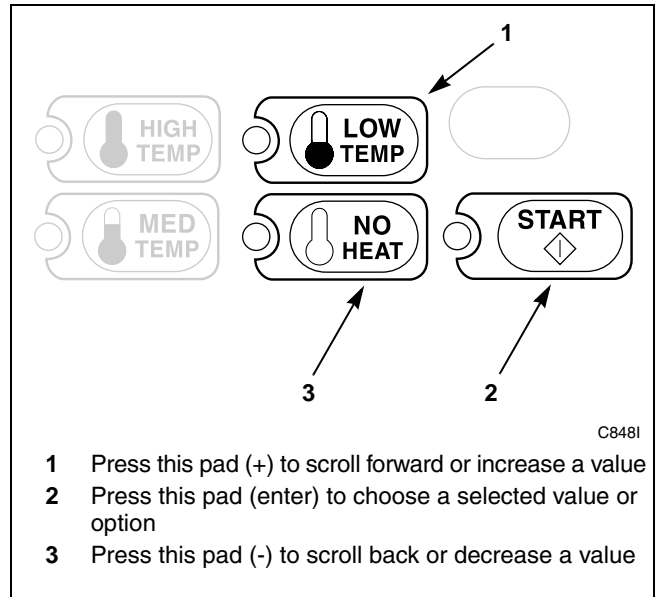


Figure 170

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+048”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 48. Coin #2 TopOff Time (Seconds Per Coin) +048

This option allows the owner to set the amount of topoff time in seconds for the Coin #2 option.

### How to Program Coin #2 TopOff Time (Seconds Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

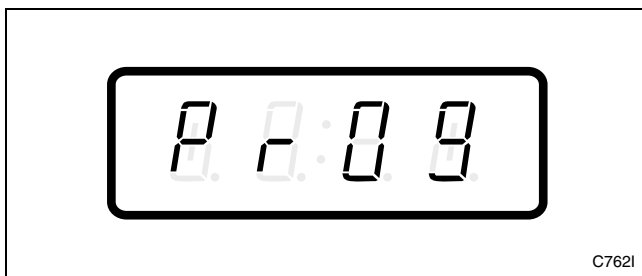


Figure 171

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+048” appears in the VFD. Refer to *Figure 172*.

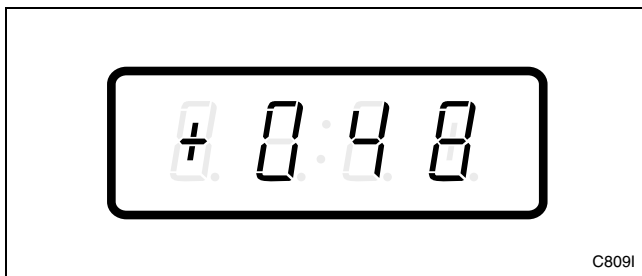


Figure 172

4. When “+048” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the Coin #2 TopOff Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 173*.

**NOTE: The Coin #2 TopOff Time can be set from zero (0) to 59 seconds.**

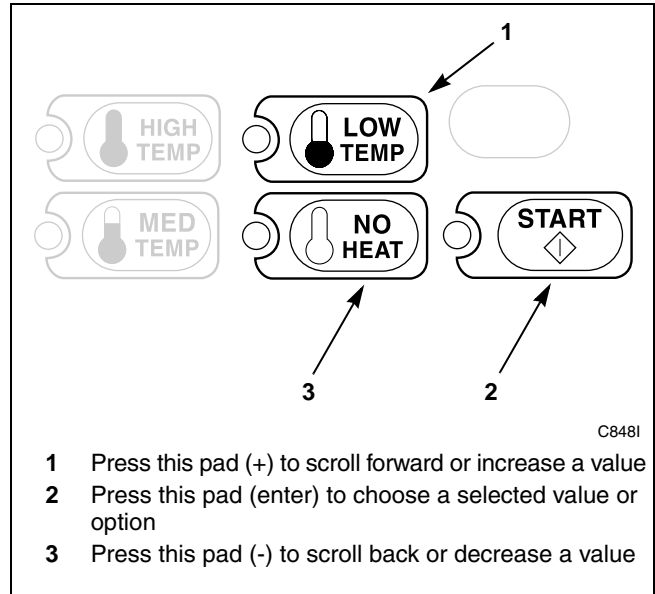


Figure 173

6. Press the START (enter) keypad when the correct number of seconds appears in the VFD. The next option, “+049”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 49. Card TopOff Minutes +049

This option allows the owner to set the amount of topoff time in minutes for Card Reader machines.

### How to Program Card TopOff Minutes

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

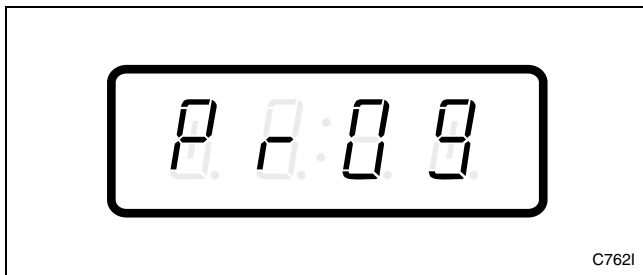


Figure 174

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+049” appears in the VFD. Refer to *Figure 175*.

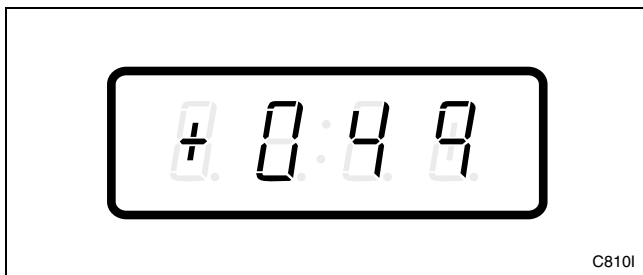
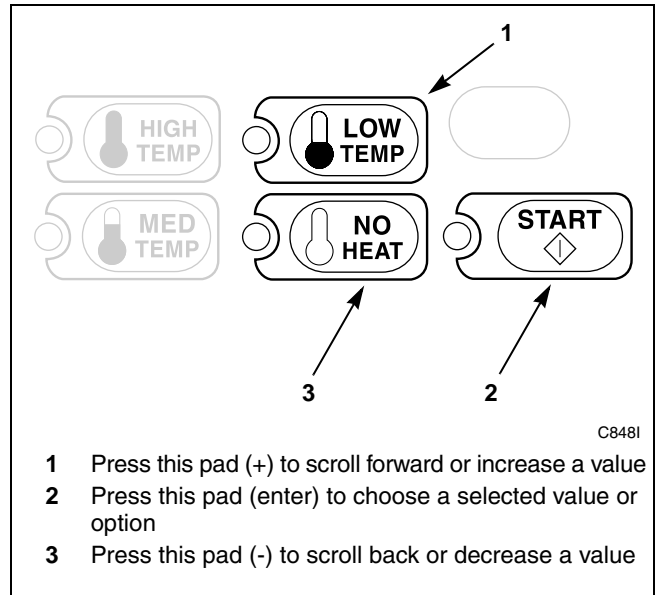


Figure 175

4. When “+049” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Card TopOff Minutes will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 176*.

**NOTE: The Card TopOff Minutes can be set from one (1) to 60 minutes. The maximum amount of time, including the topoff time, is 99 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 176

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.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 50. Card TopOff Seconds +050

This option allows the owner to set the amount of topoff time in seconds for Card Reader machines.

### How to Program Card TopOff Seconds

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

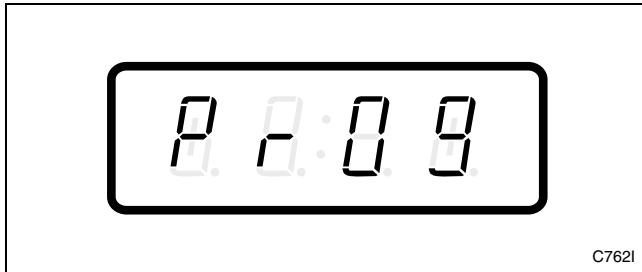


Figure 177

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+050” appears in the VFD. Refer to *Figure 178*.

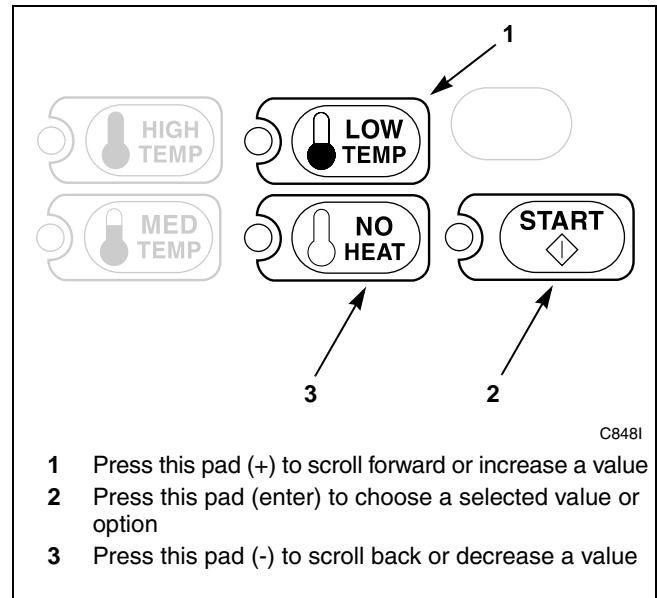


Figure 178

4. When “+050” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the Card TopOff Seconds will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 179*.

**NOTE: The Card TopOff Seconds can be set from zero (0) to 59 seconds.**



- 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 number of seconds appears in the VFD. The next option, “+051”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 51. Coin #1 Bonus Time (Minutes Per Coin) +051

This option allows the owner to set the amount of bonus time in minutes when using Coin #1 option.

### How to Program Coin #1 Bonus Time (Minutes Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

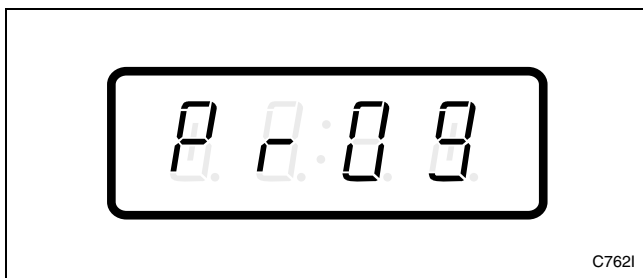


Figure 180

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+051” appears in the VFD. Refer to *Figure 181*.

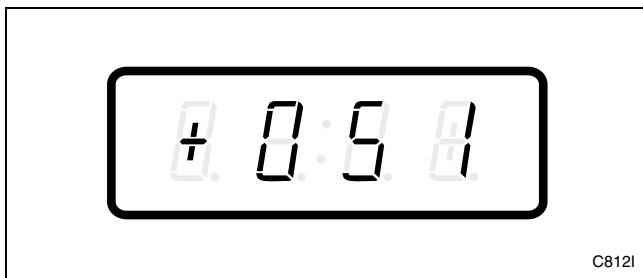
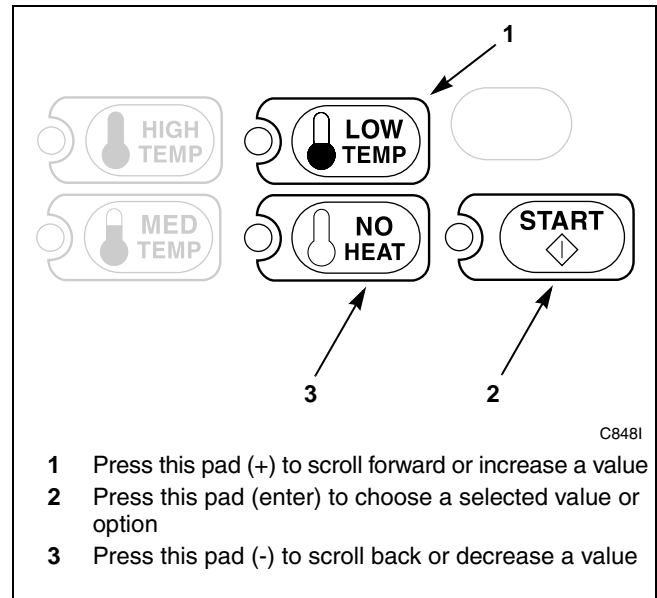


Figure 181

4. When “+051” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Coin #1 Bonus Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 182*.

**NOTE: The Coin #1 Bonus Time can be set from one (1) to 60 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 182

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+052”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.



## 52. Coin #1 Bonus Time (Seconds Per Coin) +052

This option allows the owner to set the amount of bonus time in seconds when using Coin #1 option.

### How to Program Coin #1 Bonus Time (Seconds Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

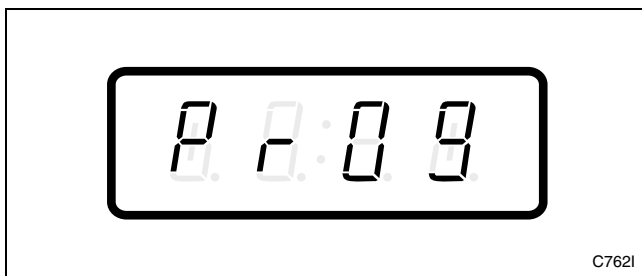


Figure 183

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+052” appears in the VFD. Refer to *Figure 184*.

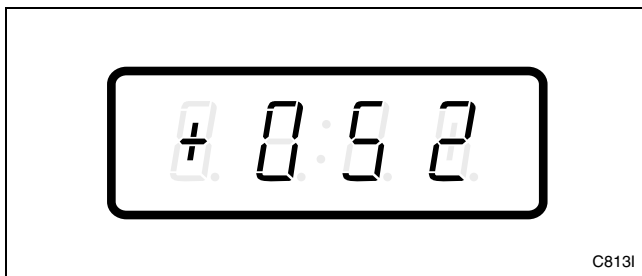


Figure 184

4. When “+052” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the Coin #1 Bonus Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 185*.

**NOTE: The Coin #1 Bonus Time can be set from zero (0) to 59 seconds.**

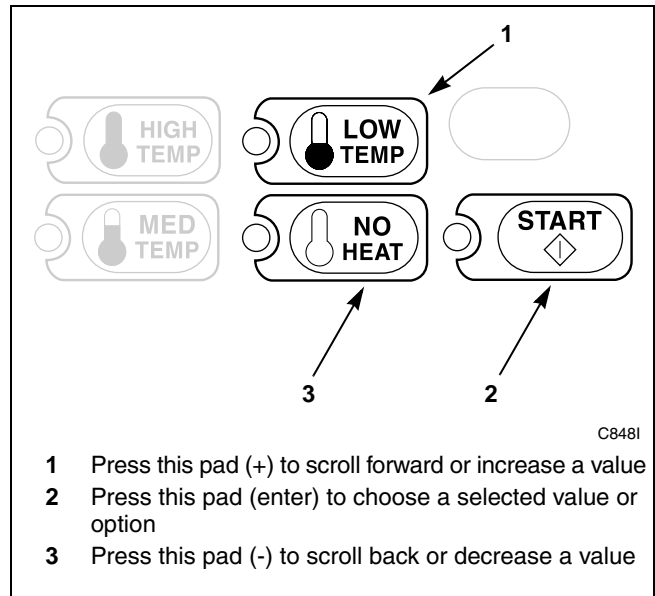


Figure 185

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

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 53. Coin #2 Bonus Time (Minutes Per Coin) +053

This option allows the owner to set the amount of bonus time in minutes when using Coin #2 option.

#### How to Program Coin #2 Bonus Time (Minutes Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

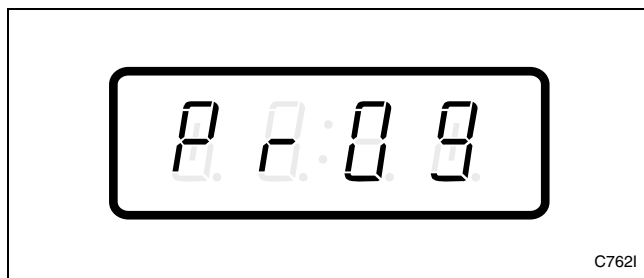


Figure 186

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+053” appears in the VFD. Refer to *Figure 187*.

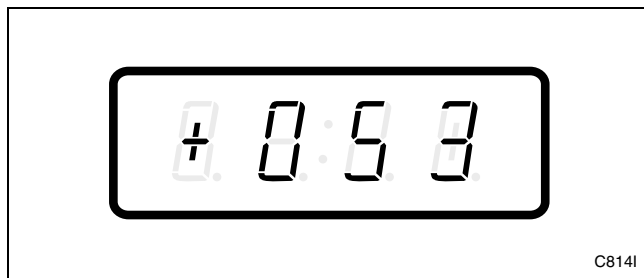
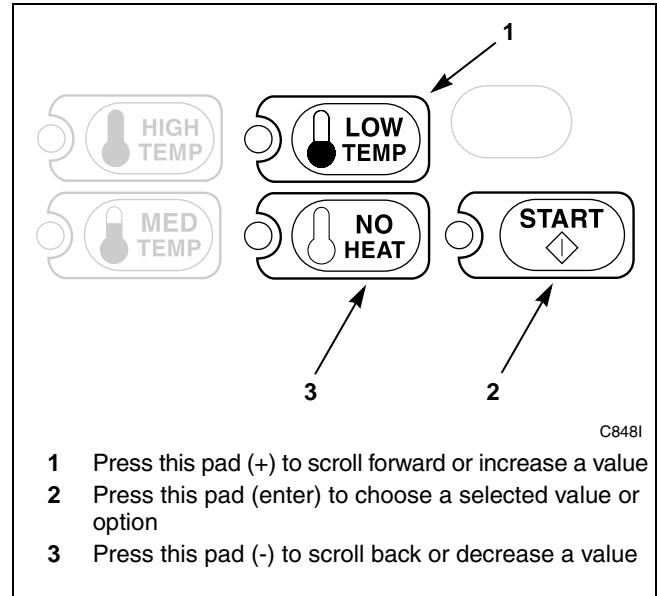


Figure 187

4. When “+053” appears in the VFD, press the START (enter) keypad. The current number of minutes set for the Coin #2 Bonus Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. Refer to *Figure 188*.

**NOTE: The Coin #2 Bonus Time can be set from one (1) to 60 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 188

6. Press the START (enter) keypad when the correct number of minutes appears in the VFD. The next option, “+054”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 54. Coin #2 Bonus Time (Seconds Per Coin) +054

This option allows the owner to set the amount of bonus time in seconds when using Coin #2 option.

### How to Program Coin #2 Bonus Time (Seconds Per Coin)

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

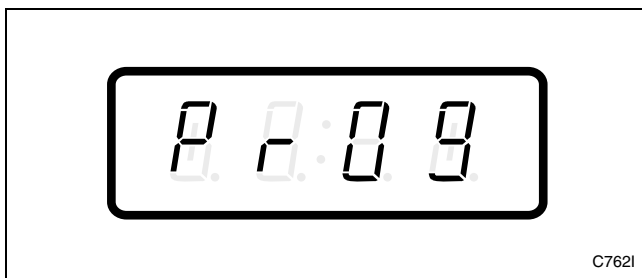


Figure 189

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+054” appears in the VFD. Refer to *Figure 190*.

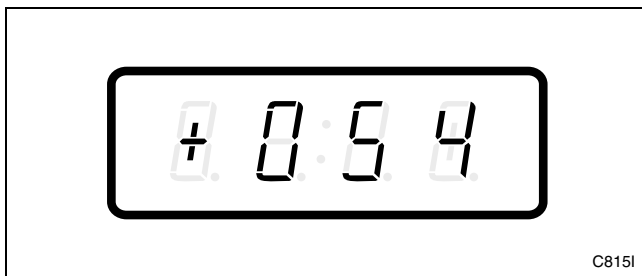


Figure 190

4. When “+054” appears in the VFD, press the START (enter) keypad. The current number of seconds set for the Coin #2 Bonus Time will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of seconds displayed in the VFD to the desired number of seconds. Refer to *Figure 191*.

**NOTE: The Coin #2 Bonus Time can be set from zero (0) to 59 seconds.**

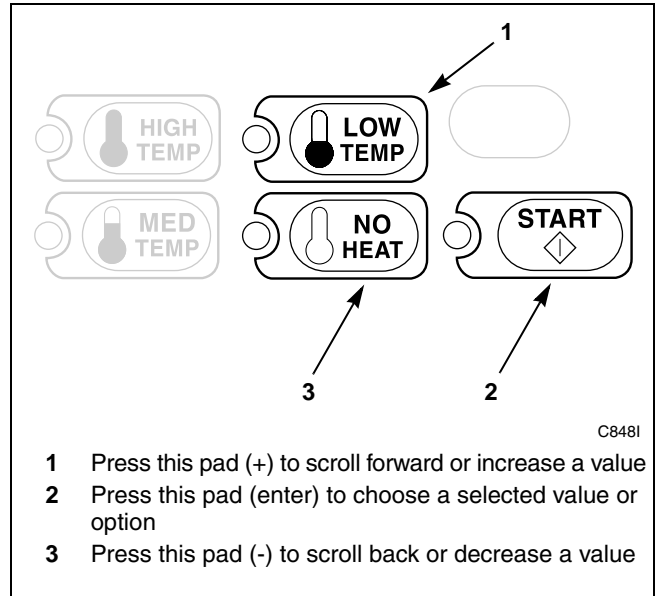


Figure 191

6. Press the START (enter) keypad when the correct number of seconds appears in the VFD. The next option, “+055”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 55. Configuration #1 +055

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

### How to Program Configuration #1

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

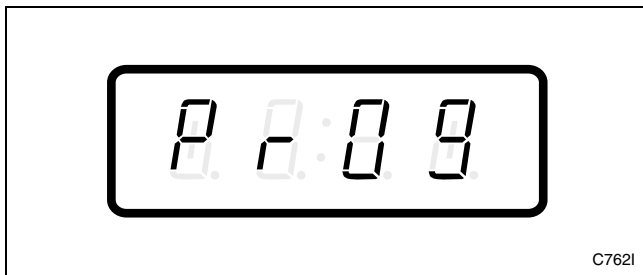


Figure 192

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+055” appears in the VFD. Refer to *Figure 193*.

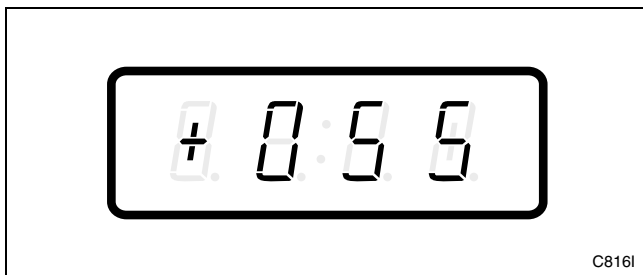


Figure 193

4. When “+055” appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Configuration #1 Value.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number to the desired number selected from *Table 5*. Refer to *Figure 194*.

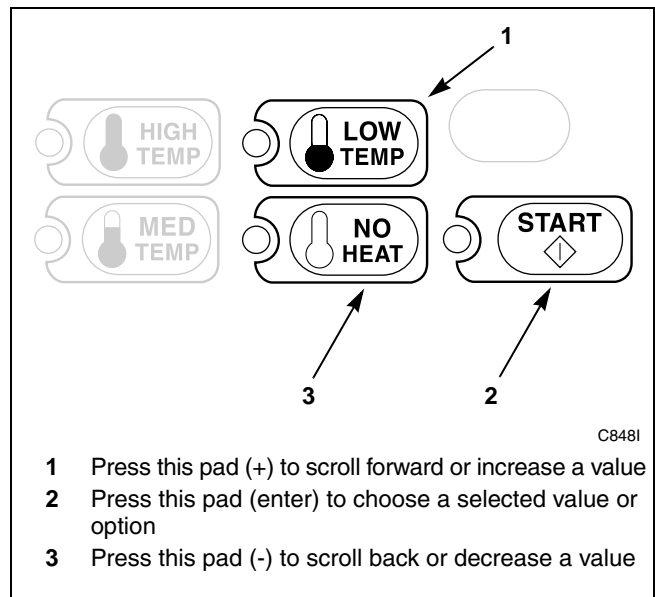


Figure 194

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

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## Configuration #1 Programming

Use the following table to turn on or turn off the preprogrammed daylight savings option, infra-red access option, decimal point option, and the manual access option in NetMaster.

To change any or all of these configuration options, review the following descriptions carefully and choose the appropriate configuration value from *Table 5*. Enter the appropriate value in step 5 on the previous page.

Daylight Savings	<p>This option automatically sets the clock in NetMaster to account for the time change during Daylight Savings.</p> <p><b>NOTE: This Daylight Savings timeframe is from the first Sunday in April to the last Sunday in October.</b></p> <p>OFF = Turns off the automatic daylight savings option programmed in NetMaster. ON = Turns on the automatic daylight savings option programmed in NetMaster.</p>
Infra-red Access	<p>This option determines if a Micro-Wand can access or program NetMaster.</p> <p>OFF = Turns off the infra-red access by the Micro-Wand. ON = Turns on the infra-red access by the Micro-Wand.</p>
Decimal Point	<p>This option determines if a decimal point is used when displaying the vend price (i.e., machines using token currency may choose to remove the decimal point).</p> <p>OFF = Turns off the decimal point from appearing in the VFD. ON = Turns on the decimal point to appear in the VFD.</p>
Manual Access	<p>This option must be turned on to perform manual programming with the keypads. Manual access can only be turned on or off with the Micro-Wand, Smart Card Reader, or Network Board.</p>

## Programming NetMaster

<b>Configuration #1</b>				
<b>Config Value</b>	<b>Manual Access</b>	<b>Decimal Point</b>	<b>Infra-red Access</b>	<b>Daylight Savings</b>
0	OFF	OFF	OFF	OFF
1	OFF	OFF	OFF	<b>ON</b>
4	OFF	OFF	<b>ON</b>	OFF
5	OFF	OFF	<b>ON</b>	<b>ON</b>
8	OFF	<b>ON</b>	OFF	OFF
9	OFF	<b>ON</b>	OFF	<b>ON</b>
12	OFF	<b>ON</b>	<b>ON</b>	OFF
13	OFF	<b>ON</b>	<b>ON</b>	<b>ON</b>
16	<b>ON</b>	OFF	OFF	OFF
17	<b>ON</b>	OFF	OFF	<b>ON</b>
20	<b>ON</b>	OFF	<b>ON</b>	OFF
21	<b>ON</b>	OFF	<b>ON</b>	<b>ON</b>
24	<b>ON</b>	<b>ON</b>	OFF	OFF
25	<b>ON</b>	<b>ON</b>	OFF	<b>ON</b>
28	<b>ON</b>	<b>ON</b>	<b>ON</b>	OFF
29*	<b>ON</b>	<b>ON</b>	<b>ON</b>	<b>ON</b>

\* Factory default setting

Table 5

## 56. Configuration #2 +056

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

### How to Program Configuration #2

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

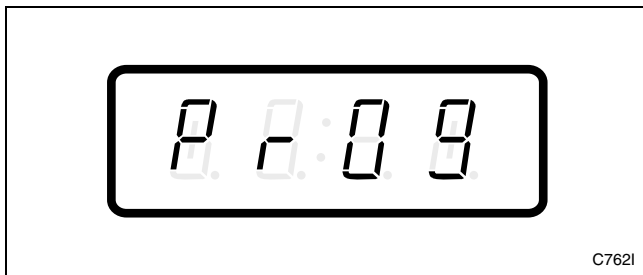


Figure 195

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+056” appears in the VFD. Refer to *Figure 196*.

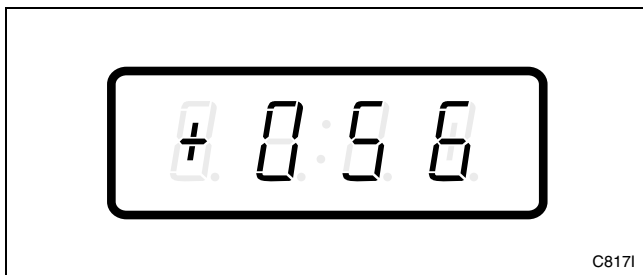
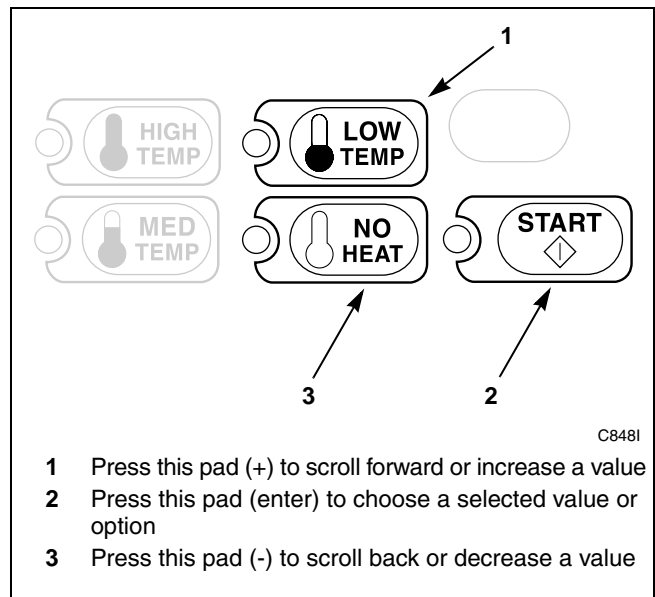


Figure 196

4. When “+056” appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Configuration #2 Value.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number to the desired number selected from *Table 6*. Refer to *Figure 197*.



- 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 number appears in the VFD. The next option, “+057”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## Programming NetMaster

### Configuration #2 Programming

Use the following table to turn on or turn off access for OPL mode and TopOff and to change Fahrenheit/Celsius, TopOff Vend/Card and minutes/seconds.

Minutes or Min/Sec	This option determines if minutes or minutes and seconds will be displayed in the VFD. MIN = Turns on the minutes only display. MIN/SEC = Turns on the minutes and seconds display.
TopOff Enable/ Disable	This option determines whether the TopOff feature is turned on or off. OFF = Turns off TopOff. ON = Turns on TopOff.
TopOff Type	This option determines the cards needed for the TopOff feature. All Cards = Allows any card to use the TopOff feature. One Card = Allows only the same card that started the cycle to use the TopOff feature.
Fahrenheit/Celsius	This option determines whether the display will be shown in Fahrenheit or Celsius. F = Displays temperatures in Fahrenheit. C = Displays temperatures in Celsius.
OPL Mode	This option determines whether the OPL Mode is turned on or off. OFF = Turns off OPL Mode. ON = Turns on OPL Mode.

**NOTE: If manually programming, DO NOT program OPL mode “ON”. This feature cannot be exited manually.**



Configuration #2					
Config #2 Value	Minutes/Min/Sec	TopOff Enable/Disable	TopOff Type	Fahrenheit/Celsius	OPL Mode
0	MIN/SEC	OFF	All Cards	F	OFF
1	MIN/SEC	OFF	All Cards	F	ON
2	MIN/SEC	OFF	All Cards	C	OFF
3	MIN/SEC	OFF	All Cards	C	ON
8	MIN/SEC	OFF	One Card	F	OFF
9	MIN/SEC	OFF	One Card	F	ON
10	MIN/SEC	OFF	One Card	C	OFF
11	MIN/SEC	OFF	One Card	C	ON
16	MIN/SEC	ON	All Cards	F	OFF
17	MIN/SEC	ON	All Cards	F	ON
18	MIN/SEC	ON	All Cards	C	OFF
19	MIN/SEC	ON	All Cards	C	ON
24	MIN/SEC	ON	One Card	F	OFF
25	MIN/SEC	ON	One Card	F	ON
26	MIN/SEC	ON	One Card	C	OFF
27	MIN/SEC	ON	One Card	C	ON
32	MIN	OFF	All Cards	F	OFF
33	MIN	OFF	All Cards	F	ON
34	MIN	OFF	All Cards	C	OFF
35	MIN	OFF	All Cards	C	ON
40	MIN	OFF	One Card	F	OFF
41	MIN	OFF	One Card	F	ON
42	MIN	OFF	One Card	C	OFF
43	MIN	OFF	One Card	C	ON
48*	MIN	ON	All Cards	F	OFF
49	MIN	ON	All Cards	F	ON
50	MIN	ON	All Cards	C	OFF
51	MIN	ON	All Cards	C	ON
56	MIN	ON	One Card	F	OFF
57	MIN	ON	One Card	F	ON
58	MIN	ON	One Card	C	OFF
59	MIN	ON	One Card	C	ON

\* Factory default setting

Table 6

### 57. Configuration #3 +057

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

#### How to Program Configuration #3

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

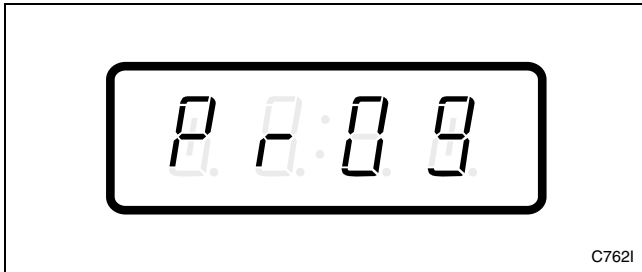


Figure 198

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+057” appears in the VFD. Refer to *Figure 199*.

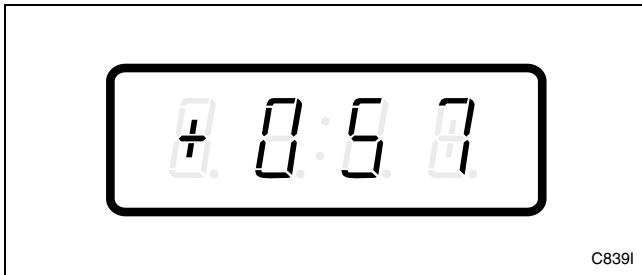


Figure 199

4. When “+057” appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Configuration #3 Value.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number to the desired number selected from

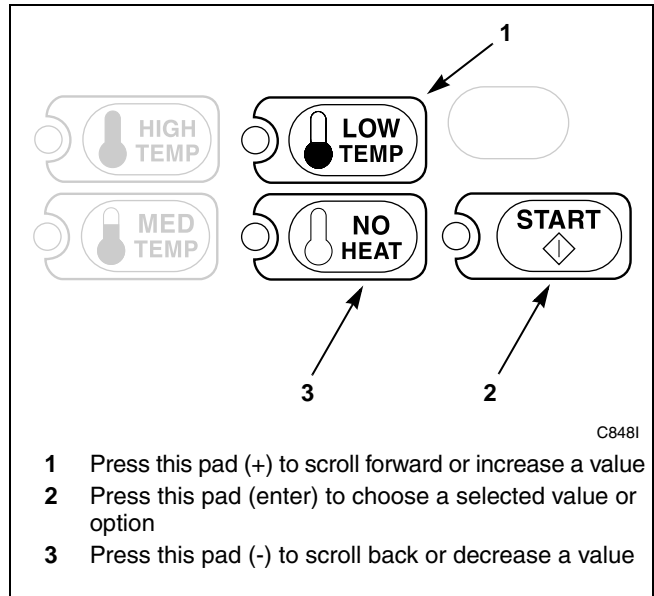


Figure 200

6. Press the START (enter) keypad when the correct number appears in the VFD. The next option, “+058”, will appear in the VFD.

#### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### Configuration #3 Programming

Use the following table to turn on or turn off access for Manual Rapid Advance and to change Available Output Mode.

Manual Rapid Advance      This option turns on or off the Manual Rapid Advance feature.  
 OFF = Turns off Manual Rapid Advance.  
 ON = Turns on Manual Rapid Advance.

**NOTE: Selecting Ready Mode for the available output will turn off the available output after the first pulse is received. Selecting Start Mode will keep the available output on until the vend price is satisfied. This feature is used for aftermarket card reader or central pay systems.**

Configuration #3		
Config #3 Value	Manual Rapid Advance	Available Until
0	OFF	READY MODE
1	OFF	START MODE
2*	ON	READY MODE
3	ON	START MODE

\* Factory default setting

Table 7

## 58. High Temperature +058

This option allows the owner to set the temperature of the High Temperature cycle.

### How to Program High Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

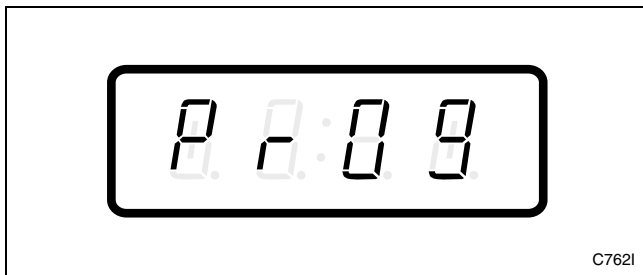


Figure 201

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+058” appears in the VFD. Refer to *Figure 202*.

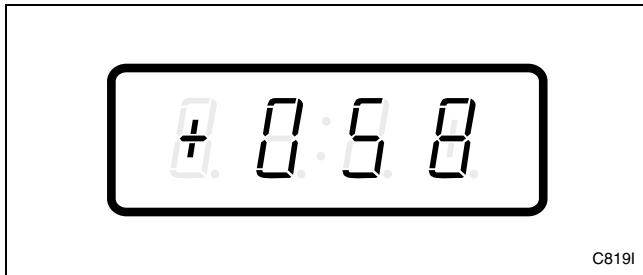
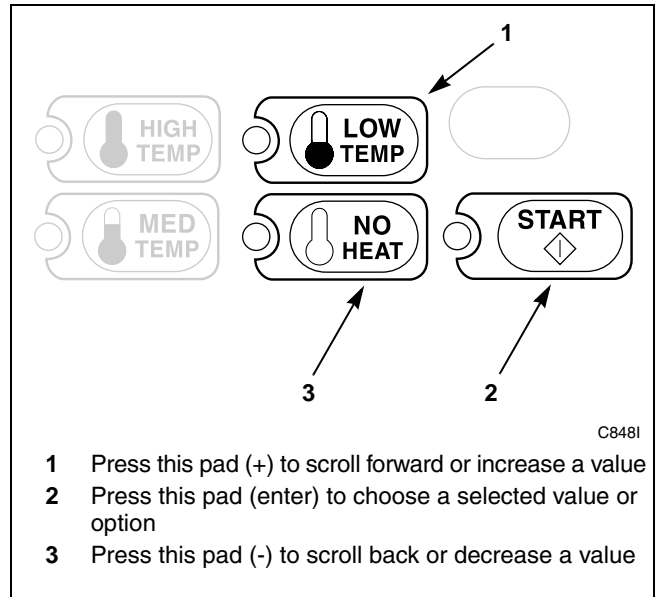


Figure 202

4. When “+058” appears in the VFD, press the START (enter) keypad. The current number of degrees set for the High Temperature will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of degrees displayed in the VFD to the desired number of degrees. Refer to *Figure 203*.

**NOTE: High temperature range is 100-190°F (38-88°C). The high temperature factory default setting is 190°F (88°C).**



- 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 number of degrees appears in the VFD. The next option, “+059”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 59. Medium Temperature +059

This option allows the owner to set the temperature of the Medium Temperature cycle.

### How to Program Medium Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

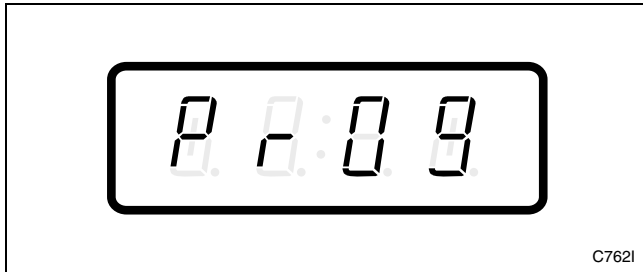


Figure 204

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+059” appears in the VFD. Refer to *Figure 205*.

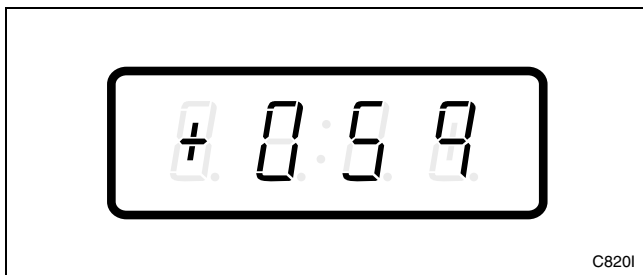
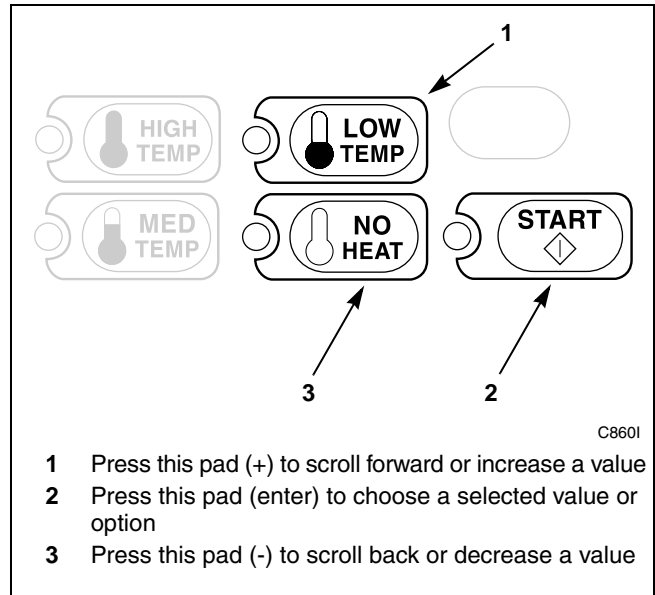


Figure 205

4. When “+059” appears in the VFD, press the START (enter) keypad. The current number of degrees set for the Medium Temperature will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of degrees displayed in the VFD to the desired number of degrees. Refer to *Figure 206*.

**NOTE: Medium temperature range is 100-190°F (38-88°C). The medium temperature factory default setting is 160°F (71°C).**



- 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 number of degrees appears in the VFD. The next option, “+060”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 60. Low Temperature +060

This option allows the owner to set the temperature of the Low Temperature cycle.

### How to Program Low Temperature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

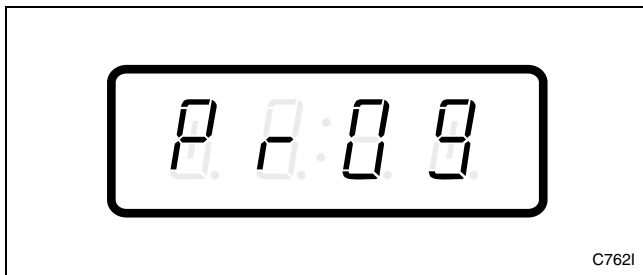


Figure 207

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+060” appears in the VFD. Refer to *Figure 208*.

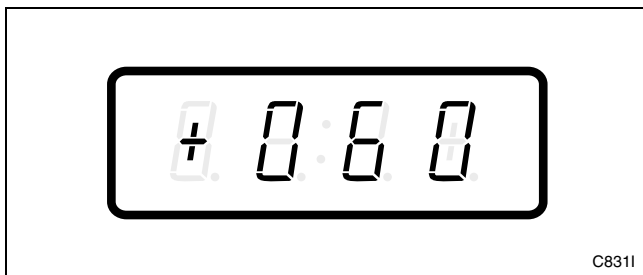
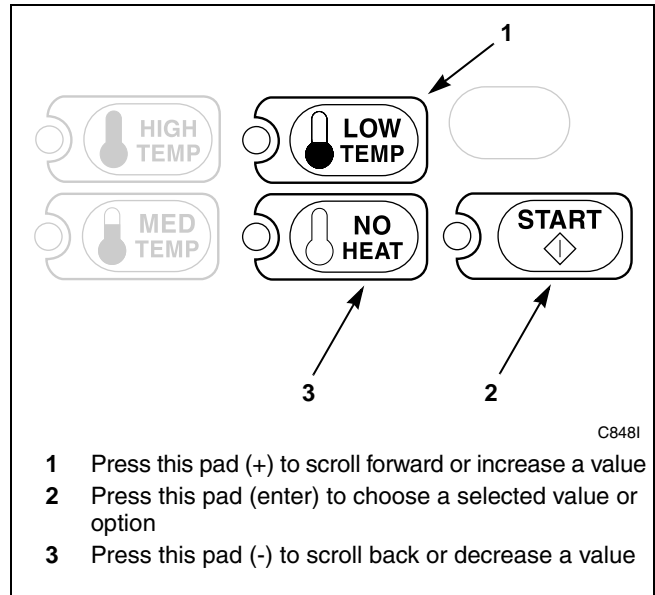


Figure 208

4. When “+060” appears in the VFD, press the START (enter) keypad. The current number of degrees set for the Low Temperature will appear in the VFD.

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number of degrees displayed in the VFD to the desired number of degrees. Refer to *Figure 209*.

**NOTE: Low temperature range is 100-190°F (38-88°C). The low temperature factory default setting is 130°F (54°C).**



- 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

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

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 61. Lucky Option +061

This option allows the owner to program the machine to provide a free vend cycle to customers after a certain number of machine cycles have occurred.

For coin models, “FrEE” will be displayed five minutes after the completion of the programmed number of cycles has occurred. The cycle can then be started by pressing the START (enter) pad.

For card models, when a card is inserted, the VFD will display “bAL” followed by the card balance. When the user presses the START pad, a zero vend will be deducted from the card. The VFD will display “WAIT”. The VFD will then display “FrEE” for five seconds and then the cycle time will be displayed. When the card is removed, the VFD will flash the remaining balance for three seconds and will then revert back to the cycle time.

### How to Program Lucky Option

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

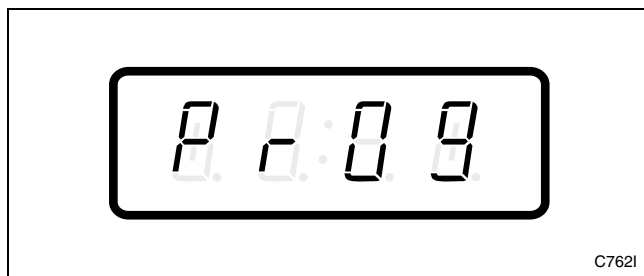


Figure 210

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+061” appears in the VFD. Refer to *Figure 211*.

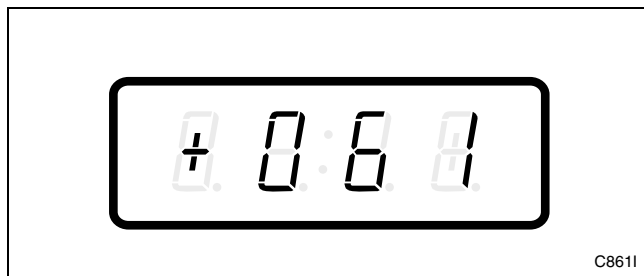


Figure 211

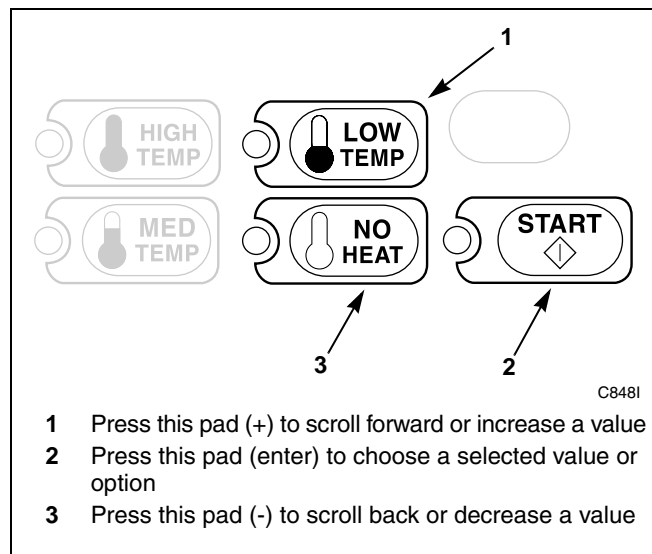
4. When “+061” appears in the VFD, press the START (enter) keypad. A number will appear in the VFD. This number corresponds to the current Lucky Option Programming Value.
5. Locate the desired number in the first column of *Table 8*.

Lucky Option		
Lucky Option Value	Lucky Cycle ON/OFF	Number of Cycles
1 – 127 (50*)	OFF	1 – 127
128	ON	0
129	ON	1
130	ON	2
131 – 255	ON	3 – 127

\* Factory default setting

Table 8

6. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number until correct. Refer to *Figure 212*.



- 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

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, “+062”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 62. Smart Card Maximum Value +062

This option allows the owner to set the maximum card balance that will be accepted. If a cash value card is inserted with a balance greater than this value, it will not be accepted.

### How to Program Smart Card Maximum Value

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

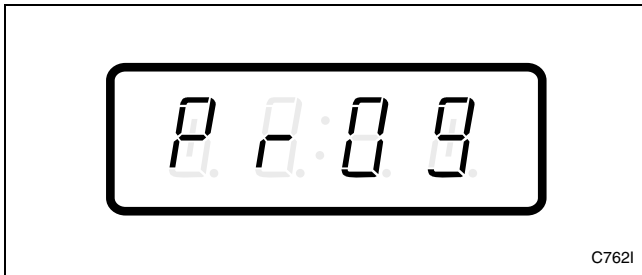


Figure 213

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+062” appears in the VFD. Refer to *Figure 214*.

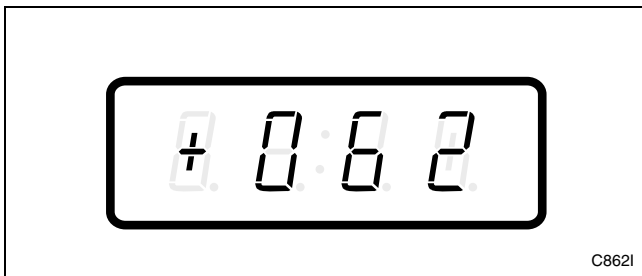


Figure 214

4. When “+062” appears in the VFD, press the START (enter) keypad. There are five digits in the Smart Card Maximum Value. The fifth digit will appear in the VFD and will flash one second on, one second off. Refer to *Figure 215*.

**NOTE: If Smart Card maximum value is \$100.00 or more, the fifth digit is “1”. If Smart Card maximum value is \$99.99 or less, the fifth digit is “0”.**

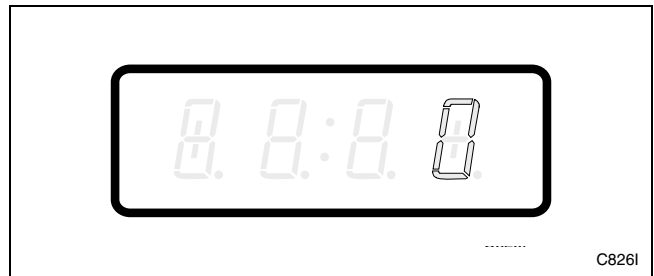
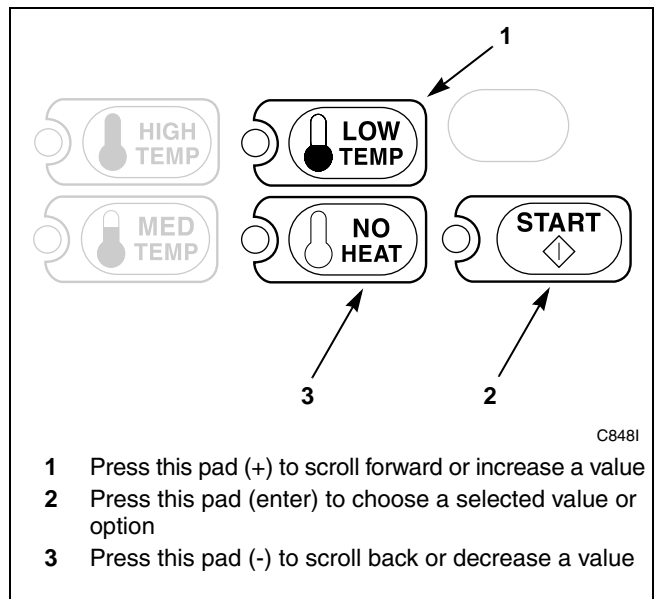


Figure 215

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 216*.

**NOTE: The maximum card value is 65,535.**



- 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 216



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 217*.



Figure 217

7. Press the LOW TEMP (+) or the NO HEAT (-) 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, “+063”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

### 63. Site Code #1 +063

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 LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

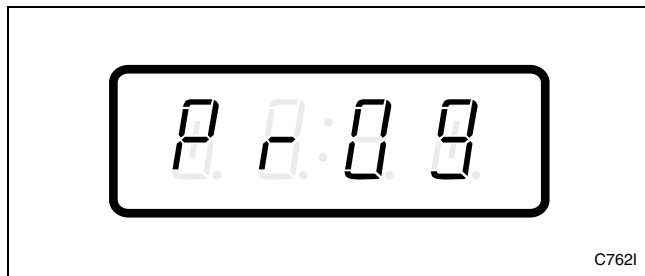


Figure 218

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+063” appears in the VFD. Refer to *Figure 219*.

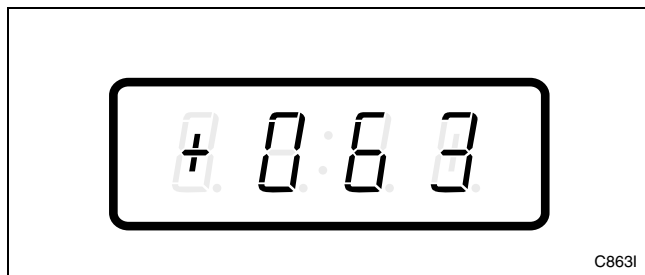


Figure 219

4. When “+063” 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 and one second off. Refer to *Figure 220*.

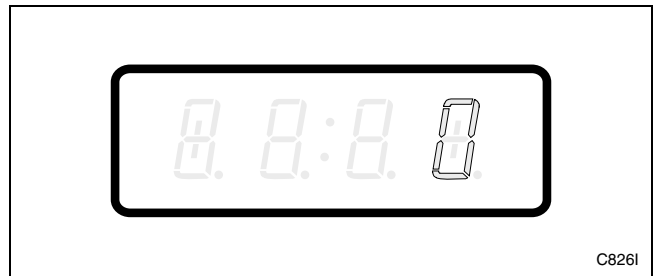
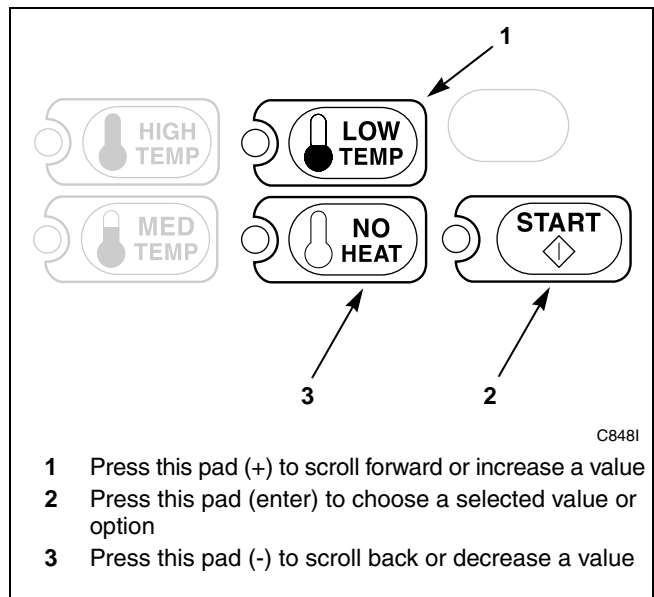


Figure 220

5. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the fifth digit. Refer to *Figure 221*.



- 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 221

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 222*.

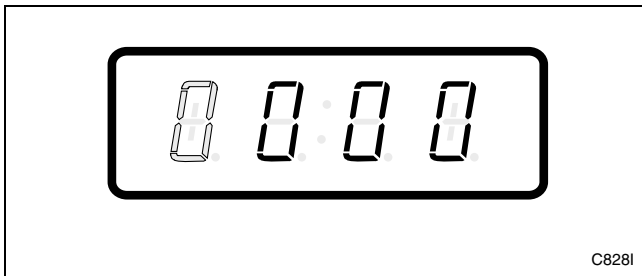


Figure 222

7. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the value of the active digit and the START 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, “+064”, will appear in the VFD.

## How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

## 64. Error Code Programming Parameter +064

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 LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

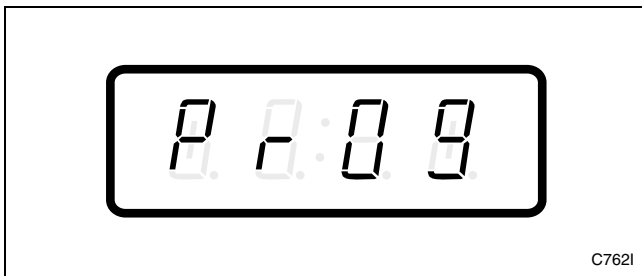


Figure 223

3. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+064” appears in the VFD. Refer to *Figure 224*.

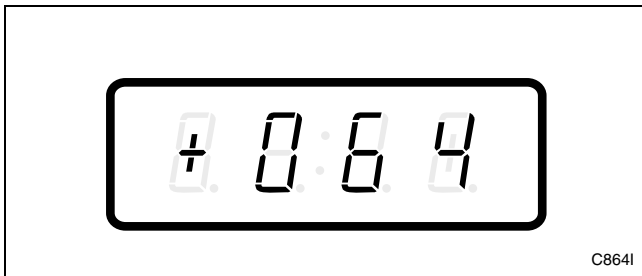
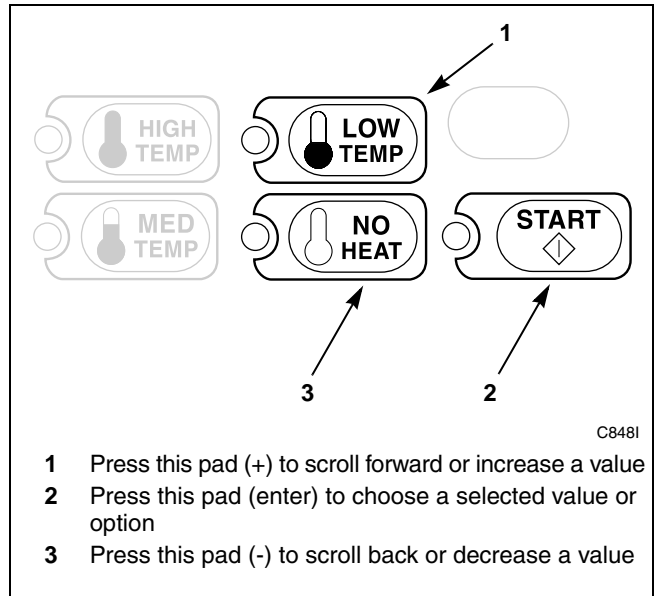


Figure 224

4. When “+064” 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 9* on the following page.

6. Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number until correct. Refer to *Figure 225*.



- 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 225

7. Press the START (enter) keypad when the correct number appears in the VFD. The next option, “+065”, will appear in the VFD.

### How to Exit Programming Feature

1. Be sure the control shows a programmable option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

**How to Read *Table 9***

To determine the correct number required to program Error Code Programming Parameter, use the following table. The Error Code Value column contains the number required in step 6. The other column corresponds to Coin Error.

The Coin Error column of options contains the words “ON” or “OFF” that indicate if that column’s option is turned on or off when the Error Code Value is entered. Select the option and enter the number found in the Error Code Value column.

<b>Error Code Programming Parameter</b>	
<b>Error Code Value</b>	<b>Coin Error</b>
0	OFF
1*	<b>ON</b>

\* Factory default setting

Table 9

## 65. Start Pulse Mode +065

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 *Start Pulse Value* until the Vend is satisfied.

### How to Program Start Pulse Mode

- Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
- Press the LOW TEMP (+) or the NO HEAT (-) keypad until “PrOg” appears in the VFD. Press the START (enter) keypad and “+001” will appear in the VFD.

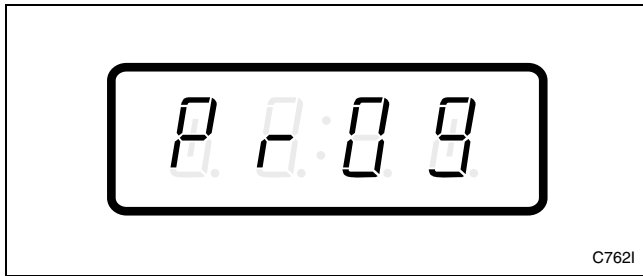


Figure 226

- Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the programmable options until “+065” appears in the VFD. Refer to *Figure 227*.

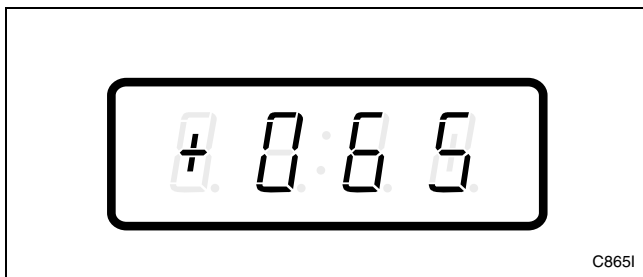


Figure 227

- When “+065” 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.

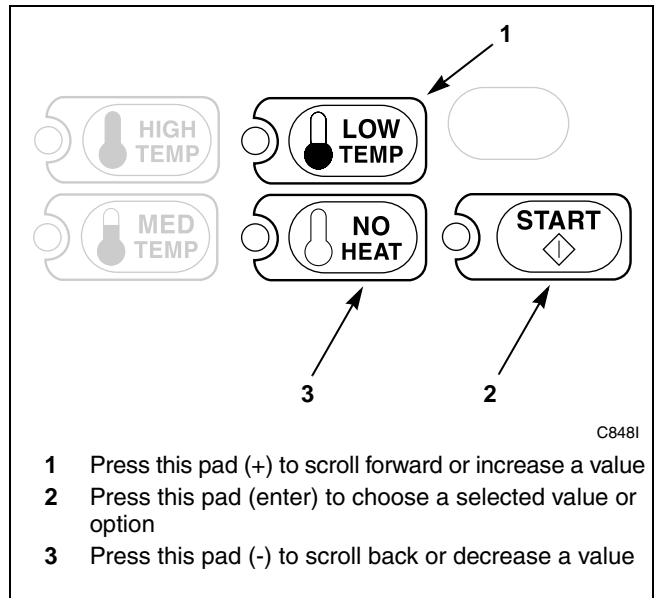
- Locate the desired number in the first column of *Table 10* below.

Start Pulse Mode		
Start Pulse Mode Value	Start Pulse ON/OFF	Single Pulse/ Multiple Pulses
0*	OFF	Single Pulse/ Multiple Pulses
128	ON	Single Pulse
192	ON	Multiple Pulses

\* Factory default setting

Table 10

- Press the LOW TEMP (+) or the NO HEAT (-) keypad to increase or decrease the current number until correct. Refer to *Figure 228*.



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

Figure 228

- Press the START (enter) keypad when the correct number appears in the VFD.

### How to Exit Programming Feature

- Be sure the control shows a programmable option, not a value.
- While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will revert back to the Ready Mode. Refer to *Figure 2*.

# Collecting Audit Information

This feature allows the owner to retrieve audit information stored in the tumbler by pressing a sequence of pads on the control. For an explanation of the audit options available, see the Audit Options List on this page.

## How to Enter Audit Feature

1. Control must be in Manual Mode to start. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “AUDT” appears. Refer to *Figure 229*.

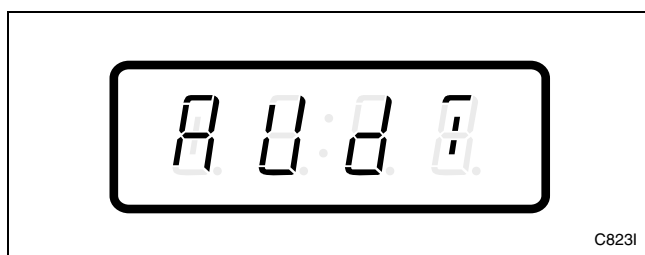


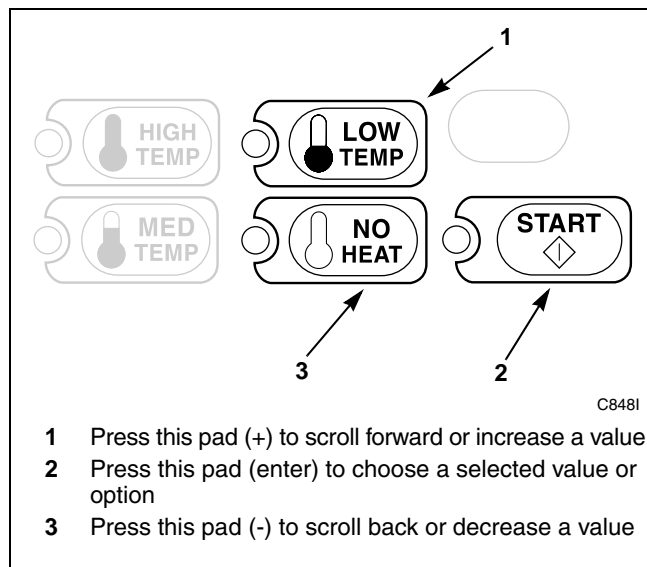
Figure 229

3. Press the START keypad. “CyC-” will appear.

If the procedure did not work, the control will return to the Ready Mode. Refer to *Figure 2*.

## How to Read Audit Data

1. Use the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through various options until the desired option is displayed in the VFD. Refer to the Audit Options List, *Table 11*, for an explanation of the audit options available. Refer to *Figure 230*.



- 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 230

Audit Options List		
#	VFD Display	Description
1*	CyC-	Total # of machine cycles
2	COI1	Total # of coins #1
3	COI2	Total # of coins #2
4	PLSE	Total # of Start Pulses
5	CArd	Card Firmware Version Number

\* Factory default setting

Table 11

2. Once the desired option appears in the VFD, press the START (enter) keypad **once** to start the audit count. At this point, the display will show the first four-digit segment of the audit value. Press the START (enter) keypad again to view the last four digits of the number.

**NOTE: The VFD can display up to 4 digits at one time. All audit counts are separated into two 4-digit segments. Each time the START (enter) keypad is pressed in step 2, the VFD will show the next 4-digit segment in the audit value.**

For Example: In the Total Number of Coins #1 option with “COI1” displayed in the VFD, the audit has counted 10,009 coins. Pressing the START (enter) keypad one time will show “\_ \_ \_ 1” to represent ten thousand. Pressing the START (enter) keypad a second time will display “0009” meaning nine. The total equals “00010009” or 10,009.

3. Press the START (enter) keypad again. The control will go to the next audit option in the Audit Options List.
4. To select other audit options, repeat steps 1 – 4.

## How to Exit Audit Feature

1. Be sure the control shows an audit option, not a value.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The control will return to the Ready Mode. Refer to *Figure 2*.

# Manual Reset

This feature allows the owner to reset the tumbler control's programming data to the factory default settings by pressing a sequence of pads on the control. For an explanation of the Factory Default Settings, refer to *Default Tumbler Settings*.

## How to Enter Manual Reset

1. Control must be in Manual Mode to start.  
Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until "rSET" appears. Refer to *Figure 231*.

3. Press the START (enter) keypad. The control will display "WAIT" until the programming is complete. Once the program has been reset, the control will revert back to the Ready Mode.



Figure 231



# Testing Machine and NetMaster Functions

This feature allows the owner to run diagnostic tests on various tumbler operations without servicing the tumbler. The following tests are available:

- Tumbler Software Version
- Service Door Opening Test
- Coin Vault Test
- Coin Drop #1 Test
- Coin Drop #2 Test
- Start Pulse Test
- Tumbler-on Temperature Test
- Thermistor Temperature Test
- Machine Config. #1 Test
- Machine Config. #2 Test
- Machine Config. #3 Test

## How to Enter Testing Feature

1. Control must be in Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “dIAG” appears.
3. Press the START (enter) keypad. Display will change to “+001” indicating the tumbler software version number test.
4. Press the LOW TEMP (+) or the NO HEAT (-) keypad to scroll through the diagnostic test options.

## How to Start Tests

To start a diagnostic test, refer to the quick reference table below (*Table 12*). Press the START (enter) keypad when the desired test # is displayed. For detailed information on each test, read the appropriate description.

## How to Exit Testing Feature

While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. The display will return to the Ready Mode. Refer to *Figure 2*.

Diagnostic (Testing) Mode – Quick Reference Table		
Diagnostic Mode	VFD Display Prior to Entry	VFD Display Upon Test Entry
Tumbler Software Version	+001*	S:XXX
Service Door Opening Test	+002	A:00
Coin Vault Test	+003	U:00
Coin Drop #1 Test	+004	C1:00
Coin Drop #2 Test	+005	C2:00
Start Pulse Test	+006	St:00
Tumbler-on Temperature Test	+007	F- - - or C- - -
Thermistor Temperature Test	+008	FXXX or CXXX
Machine Config #1 Display	+009	AXXX
Machine Config #2 Display	+010	bXXX
Machine Config #3 Display	+011	CXXX

\* Factory default setting

Table 12

### Diagnostic Test Descriptions

#### Tumbler Software Version

This option displays the control software version number. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “S:XXX” where “XXX” is the software version number.

To exit the Tumbler Software Version Number Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

#### Service Door Opening Test

This option tests the service door switch. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “A:OO”. The “OO” will show the number of service door openings.

The service door switch has to be closed for at least one second and opened for at least a half a second to make a valid count. This test will add counts to the service door opening counter for the audit for each opening of the test and save the date/time for the first opening of the test.

To exit the Service Door Opening Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

#### Coin Vault Test

This option tests the coin vault switch. To start test, the control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “U:OO”. The “OO” will show the number of coin vault openings.

The coin vault switch has to be closed for at least one second and opened for at least a half a second to make a valid count. This test will add counts to the coin vault opening counter for the audit and save the time/date for each opening of the test.

To exit the Coin Vault Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

#### Coin Drop #1 Test

This option tests coin drop #1. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “C1:OO”. The “OO” will show the number of coins entered. This test will add counts to the total number of coins #1 counter. Refer to *Collecting Audit Information*.

To exit the Coin Drop #1 Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

#### Coin Drop #2 Test

This option tests coin drop #2. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “C2:OO”. The “OO” will show the number of coins entered. This test will add counts to the total number of coins #2 counter. Refer to *Collecting Audit Information*.

To exit the Coin Drop #2 Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

#### Start Pulse Test

This option tests the Start Pulse. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “St:OO”. The “OO” will show the number of pulses entered. This test will add counts to the total number of Start Pulses counter. Refer to *Collecting Audit Information*.

To exit the Start Pulse Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

### Tumbler-on Temperature Test

This option tests the temperature inside the cylinder while running a cycle. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “XXXF” for degrees Fahrenheit or “XXXC” for Celsius. The “XXX” will show the degrees.

To exit the Tumbler-on Temperature Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

### Thermistor Temperature Test

This option displays the temperature sensed at the thermistor in 5°F increments. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. The VFD display will show “XXXF” or “XXXC” where the “XXX” will show the degrees, the “F” will show Fahrenheit, and the “C” will show Celsius.

To exit the Thermistor Temperature Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

### Machine Config Display

This option shows the machine configuration values. VFD display “+009” shows configuration value #1, “+010” shows configuration value #2, and “+011” shows configuration value #3. To start test, control must be in the Testing Mode. Refer to *How to Start Tests* at the beginning of this section.

To enter, press the START (enter) keypad. For configuration value #1, the VFD will show “AXXX”. Refer to *Table 5*. For configuration value #2, the VFD will show “bXXX”. Refer to *Table 6*. For configuration value #3, the VFD will show “CXXX”. Refer to *Table 7*. For all, “XXX” is the value of the number.

To exit a Configuration Display Test, press the MED TEMP and LOW TEMP keypads. The control will return to the Ready Mode. Refer to *Figure 2*.

# Sales Floor Feature

The Sales Floor feature is used on a sales floor to allow the owner to turn on the entire VFD display and all LEDs. This feature is only available if the Manual Rapid Advance/Diagnostics Access is enabled.

## How to Enter Sales Floor Feature

1. Control must be in Manual Mode to start. Refer to *Entering the Manual Mode*.
2. Press the LOW TEMP (+) or the NO HEAT (-) keypad until “SHOW” appears.

3. Press the START (enter) keypad.

The display will light up.

## How to Exit Sales Floor Feature

1. Be sure service door is open.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand.

The display will return to the Ready Mode. Refer to *Figure 2*.

# Rapid Advance Feature

The Rapid Advance feature allows the owner to quickly advance through active cycles or advance into a cycle from the Ready Mode.

**NOTE: This feature is only available if the Manual Rapid Advance/Diagnostic Access is enabled.**

## How to Enter Rapid Advance from Ready Mode

1. If control is in Ready Mode, control must be put into Manual Mode. Refer to *Entering the Manual Mode*.
2. Press the MED TEMP (+) or the LOW TEMP (-) keypad until “rAPd” appears in the display.
3. Press the START (enter) keypad. The VFD will display cycle time and the START (enter) keypad LED will flash.
4. Press the START (enter) keypad to start cycle.

While in the Rapid Advance Mode, pressing the START pad will advance the cycle time by one (1) minute for every half second the keypad is held down.

**NOTE: Door must be closed to start cycle.**

## How to Enter Rapid Advance During an Active Cycle

1. Be certain access panel is open.
2. While pressing and holding the MED TEMP keypad with one hand, press the LOW TEMP keypad with the other hand. There will be no change on the VFD display.

Control must be in the Manual Mode to use the Rapid Advance feature.

While in the Rapid Advance Mode, pressing the START pad will advance the cycle time by one (1) minute for every half second the keypad is held down.

Continue pressing the START (enter) keypad until the cycle is completed.

## How to Exit Rapid Advance Feature

1. Advance through the cycles until reaching the Ready Mode. Refer to *Figure 2*.

# Error Codes

Following is a list of possible error codes. Errors beginning with “EI” refer to NetMaster Infra-red communication errors. Errors beginning with “EC”

refer to NetMaster card reader errors. All other errors refer to electronic control errors.

Display Information	Description	Cause/Corrective Action
EI:01	Transmission Failure	Communication failure. Re-aim Micro-Wand and try again.
EI:02	Device Timeout	Communication failure. Re-aim Micro-Wand and try again.
EI:03	Invalid Command Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:04	Expecting Upload Request	Communication failure. Re-aim Micro-Wand and try again.
EI:05	Invalid or Out-of-Range Data	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:06	Invalid Data Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:07	Error Writing to RTC	Control failure. Replace control.
EI:08	Error Writing to EEPROM	Control failure. Replace control.
EI:09	CRC-16 Error	Communication failure. Re-aim Micro-Wand and try again.
EI:0A	Invalid Machine Type	Incorrect machine type. Before downloading, ensure data is for current machine type.
EI:0F	Invalid Wakeup or Infra-red Disabled	Communication failure or infra-red is disabled. Manually enable infra-red on control or re-aim Micro-Wand and try again.
EC:00	General Communication Error	Communication failure. Try card again.
EC:02	Timeout Error	Communication failure. Try card again.
EC:03	Invalid Command Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:05	Invalid or Out-of-Range Data	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:06	Invalid Data Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:09	Corrupted Data Error	Communication error. Try card again.
EC:0A	Invalid Machine Type	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC:19	No Card Reader Communication	Communication failure. Power down, power up and try again. If error persists, replace control or card reader.
EC:20	Unreadable Card	Faulty card or dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be faulty.

Table 13 (Continued)

## Error Codes

Table 13 (Continued)

<b>Display Information</b>	<b>Description</b>	<b>Cause/Corrective Action</b>
EC:21	Security ID Mismatch	Incorrect card. Use card with correct security code.
EC:22	Site Code Mismatch	Incorrect card. Use card with correct site code.
EC:23	Card Maximum Value Exceeded	Value on card over max. Use a card which does not exceed maximum value.
EC:24	Insufficient Memory on Card	Card memory is full. Download card contents to PC and clear card for re-use.
EC:25	Card Reader Malfunction	Faulty card reader. Replace card reader.
EC:26	Card Write Error	Try card again. If error persists, card may be faulty.
EC:27	Diagnostic Test Card Write Failure	Faulty card reader. Replace card reader.
EC:28	Diagnostic Test Card Read Failure	Faulty card reader. Replace card reader.
EC:29	Diagnostic Test Memory Test Failure	Faulty card reader. Replace card reader.
EC:2A	Diagnostic Test Card Interface Failure	Faulty card reader. Replace card reader.
EC:2b	Diagnostic Test Flash Checksum Failure	Faulty card reader. Replace card reader.
EC:2C	Biberon or Non-biberon Device Failure	Faulty card reader. Replace card reader.
EC:2d	Firmware Update Failed, S/W (Software) Intact	Firmware load failed. Replace card reader.
EC:2E	Firmware Update Failed, S/W Not Intact	Faulty firmware in reader. Replace card reader.
EC:2F	Firmware Updated, S/W Not Intact	Faulty firmware in reader. Replace card reader.
EC:30	Timeout Error	Replace card reader.
EC:31	Hotlisted Card Inserted Into Reader	Card hotlisted. Control will destroy card.
EC:50	Loyalty Purse Read Error	Try card again. If error persists, card may be faulty.
EC:56	Loyalty Purse Write Error	Try card again. If error persists, card may be faulty.
Right most DP (decimal point) Lit	Network Communication Error	Communication problem. Wait for 1.5 minutes for error to clear. If error doesn't clear, power-down and power-up the machine. If error persists, replace control or network board.
Alrm	Break-in Alarm Error	Service the door or coin vault switches.
OFF	Break-in Alarm Shutdown Error	Service the door or coin vault switches.
E:OP	Open Temperature Sensor Error	Open temperature sensor circuit wiring. Replace sensor.
E:SH	Shorted Temperature Sensor Error	Short in temperature sensor circuit wiring. Replace sensor.

Table 13 (Continued)

Table 13 (Continued)

Display Information	Description	Cause/Corrective Action
Err	Coin Error	Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures.
OP	Open Thermistor	Physical open in the thermistor circuit. Replace thermistor.
SH	Shorted Thermistor	Dead short in the thermistor circuit. Replace thermistor.

Table 13

## Clear Vend Feature

The Clear Vend feature allows the owner to clear a control which is in the middle of satisfying a vend price and set it back to the Ready Mode.

### How to Clear Vend

1. Open the service door. Refer to *Opening the Service Door*.
2. Close the loading door.
3. While pressing and holding the HIGH TEMP keypad with one hand, press the MED TEMP keypad with the other hand. The control will reset to the Ready Mode. Refer to *Figure 2*.

## Power Fail Recovery

The Power Fail Recovery feature allows the cycle status to be saved in memory in the event of a power failure.

If the power failure lasted less than two (2) seconds, the cycle will resume without requiring the user to press the START (enter) keypad to restart.

If the power failure lasted longer than two (2) seconds, the operation at power up will depend on the setting of the Power Fail Reset option.

If Power Fail Reset is turned off, the machine will power up in whatever mode the machine was in when it powered down. If the machine was running a cycle, the machine will enter Start Mode and the user may press the START pad to resume the cycle.

If Power Fail Reset is turned on and the power failure duration was less than the Power Fail Reset time, the operation will be the same as if Power Fail Reset was turned off. If the duration of the power failure is greater than the Power Fail Reset time, the control will return to the Ready Mode when power is restored.

# Communications Mode

## Infra-red Communications

The Infra-red Communications feature allows the tumbler control to communicate with the Micro-Wand III. The tumbler control can be programmed and have its data read without using the keypad. It may also be used to start and stop various diagnostic tests.

When using Infra-red Communications, the control will go blank and the VFD will display “-C-” until the communication is complete. The display will return to the previous mode. If an error occurs that terminates communication, the VFD will display “E1:OO” (“OO” represents the error code).

**NOTE: The Infra-red Communications option must be turned on. Refer to *option 55* in *Programming NetMaster*.**

## Card Reader Communications (Card Models Only)

The Card Reader Communications feature allows the tumbler control to communicate with the Card Reader. The tumbler control can be programmed and have its data read without using the keypad.

## Network Communications

The Network Communications feature allows the tumbler control to communicate with the Network. The tumbler control can be programmed and have its data read without using the keypad.



# Default Tumbler Settings

Default Settings	Default	Default Settings	Default
Cycle	MED TEMP	Lucky Option	OFF
Heat Time Cycle	10 min	Number of Cycles to Qualify for Lucky Option	50
No Heat Time cycle	10 min	Break-In Alarm	OFF
HIGH TEMP COOL DOWN Time	1 min	Auto-Shutdown	OFF
MED TEMP COOL DOWN Time	1 min	Coin Vault Opening Alarm	OFF
LOW TEMP COOL DOWN Time	1 min	Access Panel Opening Alarm	OFF
HIGH TEMP	190°F	Coin Vault Shutdown	OFF
MED TEMP	160°F	Access Panel Shutdown	OFF
LOW TEMP	130°F	Signal	
Coin #1 TopOff Time	10 min	Keypress	ON
Coin #2 TopOff Time	40 min	End of Cycle	OFF
Card TopOff time	10 min	Coin Drop/Card Inserted	ON
Power Fail Reset	OFF (5 min)	Remove Card	ON
Special Vend A, B, C, D	OFF	Control Configurations	
Coin #1 Value	.25	Daylight Savings	ON
Coin #2 Value	1.00	Infra-red Access	ON
Start Pulse Value	.25	Decimal Point	ON
Smart Card Maximum Value	99.00	Manual Access	ON
Start Pulse Mode	OFF	OPL Mode	OFF
Heat Vend Price	.25	Fahrenheit/Celsius	Fahrenheit
No Heat Vend Price	.25	TopOff One Card/All Cards	All Cards
		TopOff	ON
		Time	Minutes
		Available through Start Mode/ Ready Mode	Ready Mode