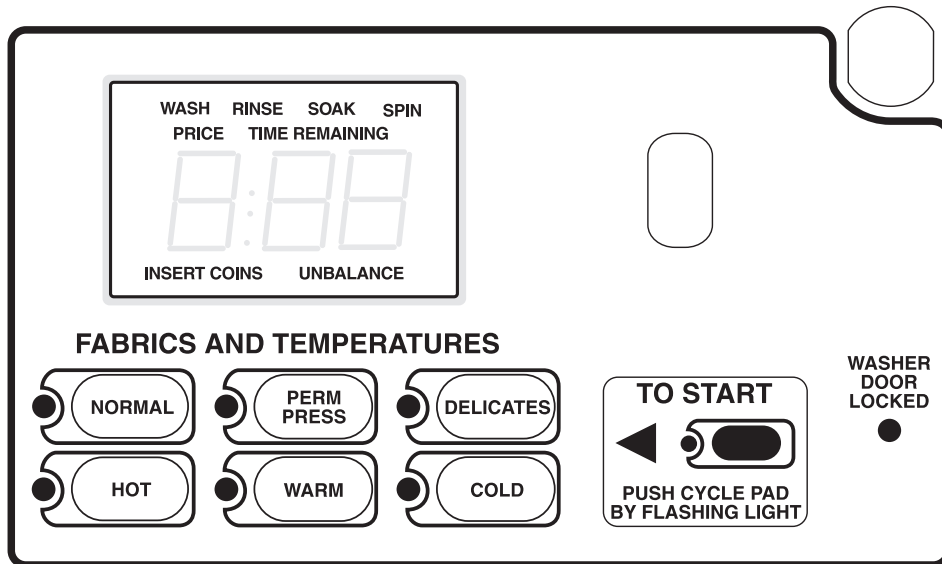


Electronic Control

Frontload Washer

See Page 2 for Model Numbers



Use this manual with all electronic frontload washers.



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 washers. These factors MUST BE supplied by the person(s) installing, maintaining, or operating the washer.

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

Model Identification

Information in this manual is applicable to these washer models:

HWF561
HWF761
SWF561
SWF661
SWF761
HTE517
HTE717
HTG519
HTG719
STE517
STE717
STG519
STG719

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10. Special Vend A Cold Wash Number of Coins “CnC” ..	33		

Notes

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Section I

Preliminary Information

About the Control

The Electronic Control on the commercial washer is an advanced, programmable computer that lets you control most machine features by pressing a sequence of SELECT CYCLE and SELECT WASH TEMP pads. See **Figure 1**.

The Electronic Control allows the user to program custom cycles, set vend prices, retrieve audit information, program and run diagnostic cycles, and program special vend features. Washers shipped from the factory have a default cycle and wash temperature setting of PERM PRESS, WARM built in. However, the user can change the default cycle, or any cycle, as needs permit.

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

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

Glossary of Terms

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

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 six keypads of the control.

Power Failure Recovery

If a cycle is in progress and the power fails, the cycle status is saved in memory for a minimum of six years without power. When the power recovers, the washer will resume into the previously active cycle if so programmed by the owner.

The owner may program a special feature called POWER FAIL RESET which sets a maximum power failure duration. To program this feature, see **Section VIII, option 25**.

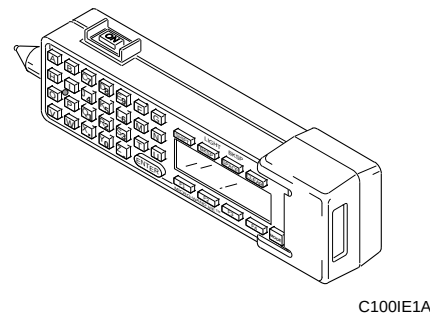
If the length of the power failure is greater than the POWER FAIL RESET time, the control will spin out the cycle when the DELICATE pad is pressed.

NOTE: If the drum is free of water, the washer will enter a 3-minute low spin.

If the length of the power failure is less than the POWER FAIL RESET time, the washer will resume at the point it was interrupted when power is restored.

Infra-red Communications (Optional)

The Electronic Control may be programmed manually or by an optional hand-held infra-red computer called the Micro-Wand IIIE™.



Micro-Wand IIIE™

The Micro-Wand allows the owner to program and retrieve information from the Electronic Control 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 washer. The operation of the Micro-Wand and the advanced features available are covered separately in the Micro-Wand IIIE™ instruction manual.

Notes

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Section II

Electronic Control Identification

Select Cycle Pads (See *Figure 1*)

SELECT CYCLE pads are used to select the specific washer cycle. These pads include NORMAL, PERM PRESS, and DELICATES. These pads allow the user to select a cycle other than the default cycle (PERM PRESS). The SELECT CYCLE keypads are active only during the first fill cycle of the washer. The selected cycle is indicated by the light (LED) flashing on the pad. Pressing the flashing pad a second time will confirm the selection and the cycle will begin.

Select Wash Temp Pads (See *Figure 1*)

SELECT WASH TEMP pads are used to select the temperature of the water used for the wash fill. These pads include HOT, WARM, and COLD. These pads allow the user to select a water temperature other than the default setting (WARM). The SELECT WASH TEMP pads are active only during the first fill cycle of the washer. The selected temperature is indicated by the light (LED) on the pad.

Both the WASH TEMP pads and the SELECT CYCLE pads are used in various combinations for programming cycles, retrieving audit information, running diagnostic tests, and other hidden operations. These instructions cover the manual programming and data retrieval options.

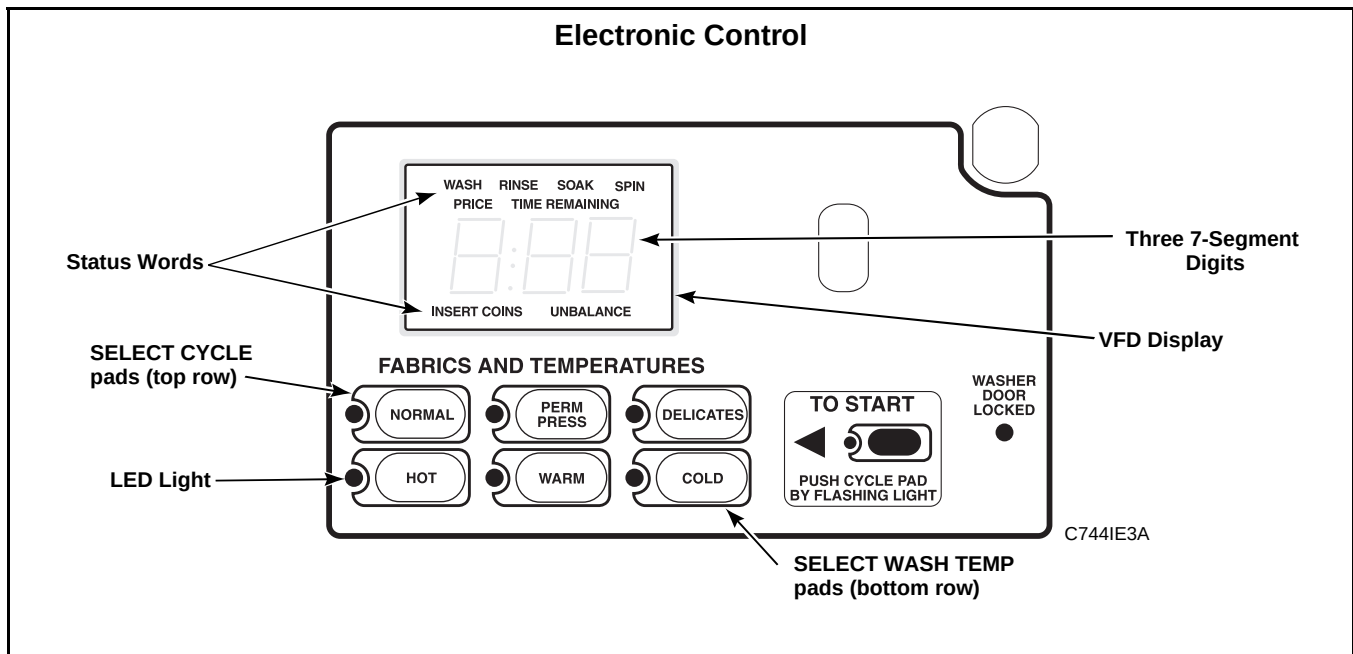


Figure 1

Notes

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Section III

VFD Display Identification

Status Words (See *Figure 1*)

WASH

WASH is lit at the beginning of a Wash cycle and will remain lit until the wash cycle is complete.

RINSE

RINSE is lit at the beginning of the Rinse or Extra Rinse cycle and will remain lit until the cycle is complete.

SOAK

SOAK is lit at the beginning of the Wash Pause cycle, and the display will light *WASH SOAK*.

SPIN

SPIN is lit for all Spin cycles. During a Wash Spin cycle, the display will light *WASH SPIN* and during an Extra Rinse Spin cycle, the display will light *RINSE SPIN*. At the beginning of Final Spin, the display will light *SPIN*.

PRICE

PRICE is lit to indicate that the value displayed by the VFD is the vend price remaining to be satisfied. Once the vend price is satisfied, the word *PRICE* will go off.

TIME REMAINING

TIME REMAINING is lit to indicate that the number displayed by two digits and the colon is the time remaining in the current cycle. It will light at the start of the cycle and remain lit until the cycle is completed. The colon flashes one (1) second on and one (1) second off while the time is counting down.

INSERT COINS

INSERT COINS is lit to prompt the user for coins to satisfy the vend price. When *INSERT COINS* is lit, the three digits and decimal point show the vend price remaining to be satisfied. The vend price displayed will decrease with each coin inserted. If a new wash temp is selected during the first fill of the wash cycle and it requires more coins, the *INSERT COINS* light will flash one (1) second on and one (1) second off, and the display will show the vend price remaining to be satisfied.

UNBALANCE

UNBALANCE is lit and will flash after the cycle is completed when the washer fails to spin due to an unbalanced load.

Three 7-Segment Digits

The 7-SEGMENT DIGITS are used to display the time remaining in a cycle or the vend price. When displaying the time remaining the colon will flash, and 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 (as described in *Section VII*).

Light Emitting Diodes (LEDS)

LIGHT EMITTING DIODES (LEDS) are used to indicate the chosen cycle and wash temperature. The cycle LED will remain lit the entire cycle. The wash temp LED will remain on until the end of the cycle or will change to a rinse fill temperature if programmed to do so.

WASHER DOOR LOCKED Light

WASHER DOOR LOCKED light is lit whenever the door is locked. The door cannot be opened when this light is on.

[illegible]

Section IV

Washer Operation

Start Up

When power is applied to the washer, the control will display *PRICE*, *INSERT COINS*, the decimal point, and the vend price. The *PRICE* and *INSERT COINS* light will remain lit until the vend price has been satisfied. The default cycle setting is PERM PRESS, the wash water fill temperature is WARM, and the rinse water temperature is COLD. The LED's will flash on PERM PRESS and will be lit on WARM at the start of the cycle. See **Figure 2**. These default settings are owner programmable. Refer to **Section VIII**.

Default Mode

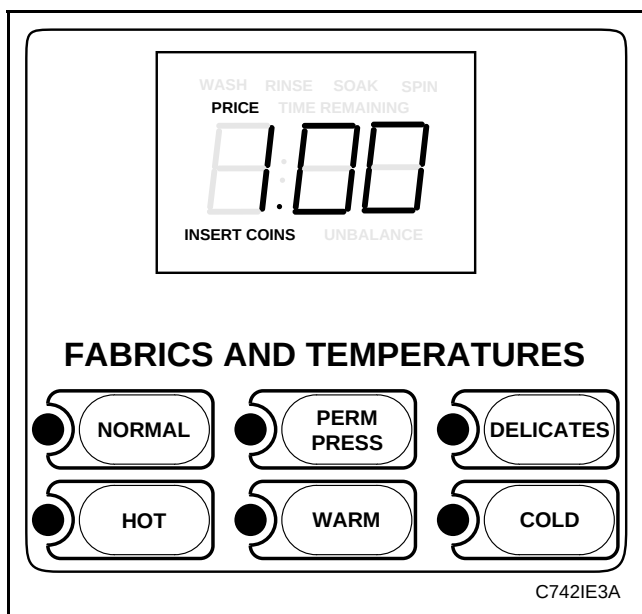


Figure 2

When using the cycle settings, the user must either press NORMAL, PERM PRESS or DELICATES. PERM PRESS, if it is the default cycle, will need to be selected once. When choosing NORMAL or DELICATES, the user must press the respective keypads once, the LED will blink, and the user must then press appropriate keypad again.

The user will be able to select a different cycle or wash water temperature by pressing a cycle pad when the machine is in the default mode or in the first fill cycle. If not enough coins are entered to satisfy the vend price, the control will display the remaining vend price needed to start the cycle. If the first fill was interrupted to change the temperature (which requires more money), and the vend price is not satisfied within one minute, the washer control will go back to the first selection and the cycle will restart from the point it was stopped. After the first fill, all key presses will be

800000

ignored, allowing the washer to go through the complete cycle.

When a cycle is complete, the control will display *TIME REMAINING*, "00" until the washer door is opened, a key is pressed, or a coin is entered. When one of these three options occur, the display will revert back to the default mode. See **Figure 2**.

Cycle Sequence

Upon the start of a cycle, the Electronic Control will display *TIME REMAINING* and the total cycle time including one (1) minute of fill time. The appropriate status words will light while the machine passes through different cycle steps. Any coin entered after the first fill cycle will be added to the total coin counter, but user will not be able to change cycles or water temperature.

Closing Washer Door

If the door is not closed when the START pad is pressed, "d:or" will be displayed and will flash one (1) second on and one (1) second off until the door is closed. Once door is closed, the START pad must be pressed again to lock door and start cycle. If the door does not lock within 15 seconds of being closed, "E:dl" will be displayed indicating a door lock error and machine will shut off.

Signals

There are three options when a signal can be used during the washer operation. The owner may program when the signal will sound and at what volume level. These three options are listed below:

1. End of Cycle Signal

By default, this signal is turned off. If turned on, the signal sounds for three (3) seconds at the end of a cycle, at one of the three programmable volume levels (High Medium or Low).

2. Signal On Keypad Depression

By default, this signal is set at the lowest volume level, and sounds for a quarter of a second each time a keypad is pressed. This signal can be programmed at one of three volume levels (High Medium or Low).

3. Signal On Coin Drop

By default, this signal is turned off. If turned on, this signal will sound for a quarter of a second each time a coin is entered at one of the three programmable volume levels (High Medium or Low).

NOTE: Refer to “*Programming the Electronic Control*,” Section VIII, to program signal options.

Changing Cycles

Cycles and wash temperatures can be changed anytime during the first fill cycle. After the first fill cycle, all key presses are ignored.

Selecting a higher priced wash temperature will stop the first fill cycle, and *INSERT COINS* will flash one (1) second on and one (1) second off until the vend price has been satisfied. After the vend price has been satisfied, the cycle will restart with the new wash temperature. If the vend price is not satisfied within one (1) minute, the washer control will go back to the previously set wash temperature.

Section V

Electronic Control Special Features

Programming the Electronic Control

The Electronic Control allows the washer owner to program the control with the use of the keypad. Audit, diagnostic, cycle and vend information may be programmed and retrieved by pressing combinations of the Select Cycle and Select Wash Temp pads.

For details on programming cycle and vend information, refer to **“Programming the Electronic Control,” Section VIII.**

Collecting Audit Information

The control will store audit information in its memory that can be retrieved by pressing various combinations of Select Cycle and Select Wash Temp pads. The Electronic Control will record coin vault openings, coins entered, service door openings, total wash cycles, special vend options, power failures and more.

For more information on the audit features, refer to **“Collecting Audit Information,” Section IX.**

Testing Machine and Electronic Control Functions

Special programmable diagnostic features built into the Electronic Control allow the owner to test specific information with the washer in and out of an active cycle. By opening and closing the service door and then pressing various sequences of Select Cycle and Select Wash Temp pads, the owner may perform the following tests:

- Coin Vault Opening Test
- Service Door Opening Test
- Coin Drop Input Test
- Door Switch Test
- Door Lock Test
- Show Fill Test

For detailed information on running diagnostic tests, refer to **“Testing Machine and Electronic Control Functions,” Section X.**

Sales Floor Feature

The Electronic Control washer has a built-in sales floor routine used to display all LED lights, status words, and the three digits with the colon and decimal point. This function is designed to show potential customers the high-tech features of the Electronic Control.

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

Rapid Advance Feature

This feature allows the user to quickly advance through active cycles or advance into a cycle from the default mode. This feature is useful when tests must be performed immediately on a washer currently in an active cycle. In this case, the user can quickly advance through the cycles to the default mode. At this point, the user can perform the required tests and then return the washer to the point it was interrupted.

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

Clearing the Electronic Control Vend Feature

This feature allows the user to return the Electronic Control back to the default mode if coins have been entered but the full vend price has not yet been satisfied. See **Figure 2.**

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

Power Fail Recovery

This feature allows the cycle status to be saved in the memory when the power fails.

For more information on using the Power Fail Recovery feature, refer to **Section XIV.**

Infrared Communications

This feature allows the washer control to communicate with the MicroWand IIIE. This allows the washer control to be programmed and have its data read without using the keypad.

For more detailed information on using the Infrared Communications feature, refer to **Section XV.**

Notes

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Section VI

Opening the Service Door

Manually programming the Electronic Control requires the user to open and close the service door. Opening and closing the service door trips a switch allowing access to various programming options, diagnostics and audit capabilities.

The service door is located in the control panel. See **Figure 3**.

Power must be connected within ten (10) minutes after opening the coin vault or service door to save the opening information along with the rest of the audit information.

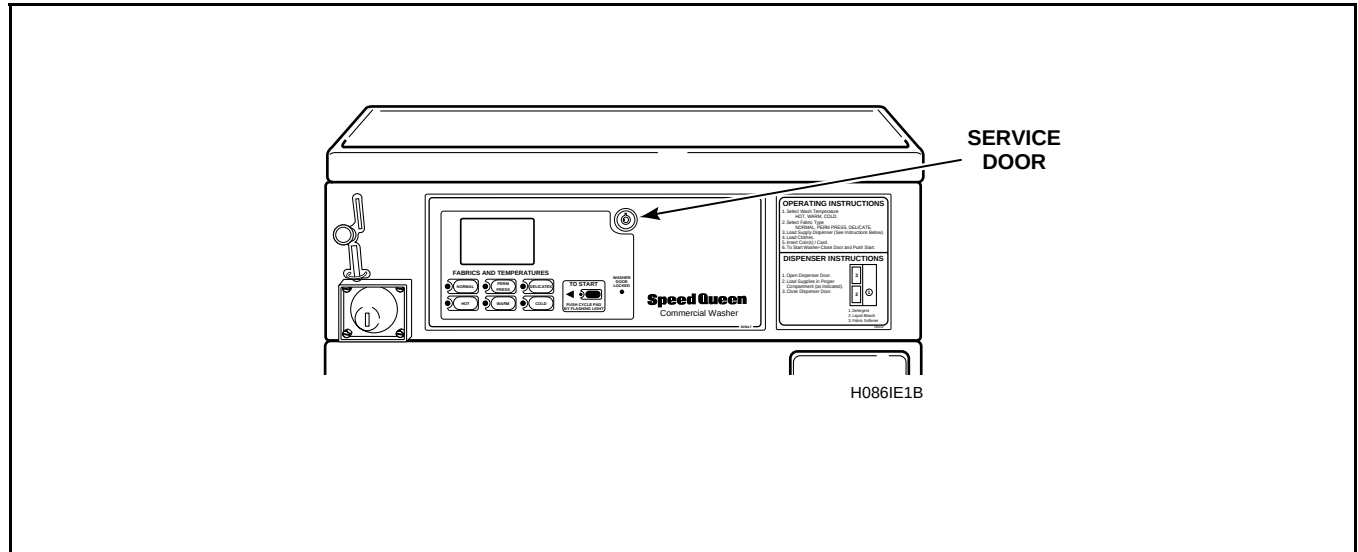


Figure 3

Notes

[illegible]

Section VII

Entering the Special Mode

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

How to Enter the Special Mode

1. Be sure the washer is in the default mode before continuing to step 2. See **Figure 2**. If the washer is in an active cycle, rapid advance through the cycle. See the Rapid Advance feature (**Section XII**). If coins have been entered, see the Clear Vend feature (**Section XIII**).
2. Open the service door. See **Figure 3**.
3. While pressing and holding the NORMAL keypad with one hand, press the HOT keypad with the other hand.
4. The VFD display will show "SPC." See **Figure 4**.

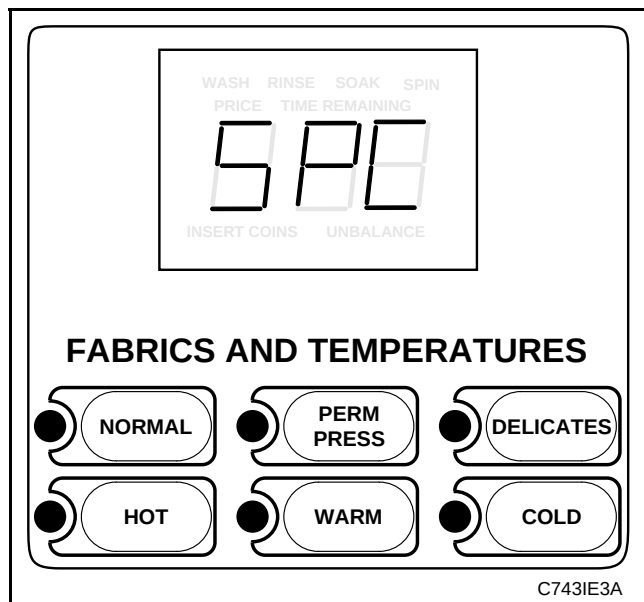


Figure 4

Notes

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Section VIII

Programming the Electronic Control

What Can Be Programmed?

This feature allows the owner to program cycle information, standard vend pricing, special vends and others by using the keypads. The control must have the manual mode enabled, which is the factory default. The manual access can only be turned OFF and ON by using the MicroWand IIIE. Refer to this section when programming the Electronic Control.

This section offers a detailed description of all 34 options available to program.

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

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

NOTE: The 3 letters in the Option column of the Programmable Options List is what will show in the VFD display when that option is selected.

*Options marked with an asterisk are for basic start-up programming.

Programmable Options Available

#	OPTION	DESCRIPTION
*1	"Slg"	Audio Signal
*2	"HnC"	Hot Wash # of Coins
*3	"AnC"	Warm Wash # of Coins
*4	"dnC"	Cold Wash # of Coins
5	"SPA"	Special Vend A Days enable
6	"SAS"	Special Vend A Start Time
7	"SAE"	Special Vend A End Time
8	"SHC"	Special Vend A Hot Wash # of Coins
9	"rnC"	Special Vend A Warm Wash # of Coins
10	"CnC"	Special Vend A Cold Wash # of Coins
*11	"nAg"	Normal Wash Agitate Time
*12	"nrg"	Normal Rinse Agitate Time
*13	"nEg"	Normal Extra Rinse Agitate Time
*14	"nFg"	Normal Final Rinse Agitate Time
*15	"PAg"	Permanent Press Wash Agitate Time
*16	"Prg"	Permanent Press Rinse Agitate Time
*17	"PEg"	Permanent Press Extra Rinse Agitate Time
*18	PFg"	Permanent Press Final Rinse Agitate Time
*19	"dAg"	Delicates Wash Agitate Time
*20	"drg"	Delicates Rinse Agitate Time
*21	"dEg"	Delicates Extra Rinse Agitate Time
*22	"dFg"	Delicates Final Rinse Agitate Time
23	"COI"	Coin Value (set at 025 value)
24	"dCS"	Default Cycle Select
25	"rPF"	Reset After a Power Failure
26	"Ern"	Extra Rinse (0 = Off, 128 = On)
27	"rrn"	Warm Rinse (0 = Off, 128 = On)
28	"CFg"	Configuration Byte
29	"Cln"	Set Real-Time Clock (minutes)
30	"CHr"	Set Real-Time Clock (hours)
31	"CdA"	Set Real-Time Clock Day
32	"CdE"	Set Real-Time Clock Date
33	"COn"	Set Real-Time Clock Month
34	"CYr"	Set Real-Time Clock Year

1. Audio Signal “Slg”

This option allows the user to program when the signals will sound and at what volume level.

There are three occasions when a signal may sound during the washer operation. These three 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 at one of three programmable volume levels (High, Medium or Low).

2. Keypad Depression Signal

By default, this signal is set at the lowest volume level and will sound for a quarter of a second. This signal will sound each time a keypad is pressed at one of the three programmable volume levels (High, Medium or Low).

3. Coin Drop Signal

By default, this signal is off. If turned on, the signal will sound for a quarter of a second each time a coin is entered at one of three programmable volume levels (High, Medium or Low).

How to Program the Audio Signal

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 5**.

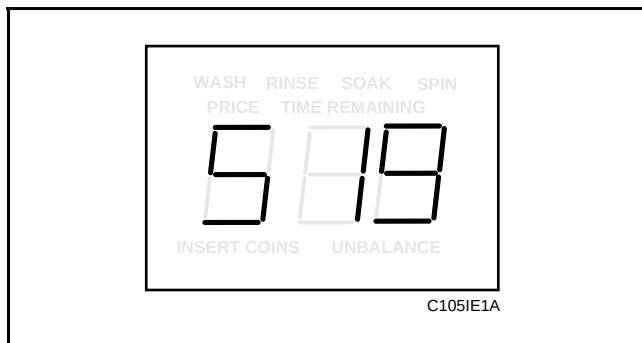


Figure 5

3. When “Slg” appears in the VFD, press the PERM PRESS (enter) keypad. A three digit number will appear in the VFD.

NOTE: The number appearing in the VFD is the current number that was selected from Chart 1 located on the following page.

4. Locate the desired three digit number in the first column of Chart 1 on the following page.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the current three digit number until correct. See **Figure 6**.

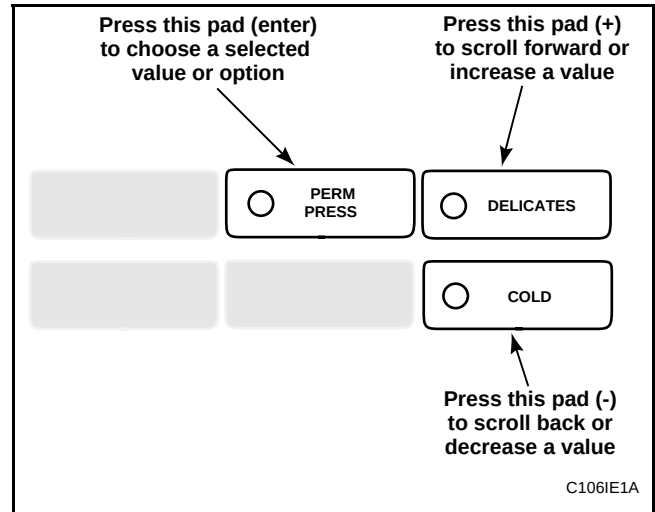


Figure 6

For Example: A user might wish to have the signal sound only when a keypad is pressed and at the lowest level. Entering the three digit number 035 in step four would turn off all the options except LOW VOLUME and KEYPAD. In this instance, the signal would sound at the lowest volume only when a keypad is pressed.

6. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “HnC”, will appear in the VFD.

NOTE: To program “HnC” (Hot Wash Number of Coins), see option 2. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

How to read Chart 1

To determine the correct three digit number required in step four on the previous page, review the chart below. Read Chart 1 from left to right. Each row begins with a three digit number required in step four.

Each three digit number in the first column is followed by the words ON or OFF in the following columns. The word ON or OFF indicates if the option at the top of that column is turned on or turned off when that number is entered.

Chart 1: “Slg”

Signal Value	High Volume	Medium Volume	Low Volume	Coin Input	Cycle End	Key Pad	ON/OFF
000	OFF	OFF	OFF	OFF	OFF	OFF	OFF
035	OFF	OFF	ON	OFF	OFF	ON	ON
037	OFF	OFF	ON	OFF	ON	OFF	ON
039	OFF	OFF	ON	OFF	ON	ON	ON
041	OFF	OFF	ON	ON	OFF	OFF	ON
043	OFF	OFF	ON	ON	OFF	ON	ON
045	OFF	OFF	ON	ON	ON	OFF	ON
047	OFF	OFF	ON	ON	ON	ON	ON
065	OFF	ON	OFF	OFF	OFF	OFF	ON
067	OFF	ON	OFF	OFF	OFF	ON	ON
069	OFF	ON	OFF	OFF	ON	OFF	ON
071	OFF	ON	OFF	OFF	ON	ON	ON
073	OFF	ON	OFF	ON	OFF	OFF	ON
075	OFF	ON	OFF	ON	OFF	ON	ON
077	OFF	ON	OFF	ON	ON	OFF	ON
079	OFF	ON	OFF	ON	ON	ON	ON
129	ON	OFF	OFF	OFF	OFF	OFF	ON
131	ON	OFF	OFF	OFF	OFF	ON	ON
133	ON	OFF	OFF	OFF	ON	OFF	ON
135	ON	OFF	OFF	OFF	ON	ON	ON
137	ON	OFF	OFF	ON	OFF	OFF	ON
139	ON	OFF	OFF	ON	OFF	ON	ON
141	ON	OFF	OFF	ON	ON	OFF	ON
143	ON	OFF	OFF	ON	ON	ON	ON

2. Hot Wash Number of Coins “HnC”

This option allows the user to set the vend price for a hot wash. This vend price will be displayed in the VFD when HOT is selected.

How to Program the Hot Wash

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 7**.

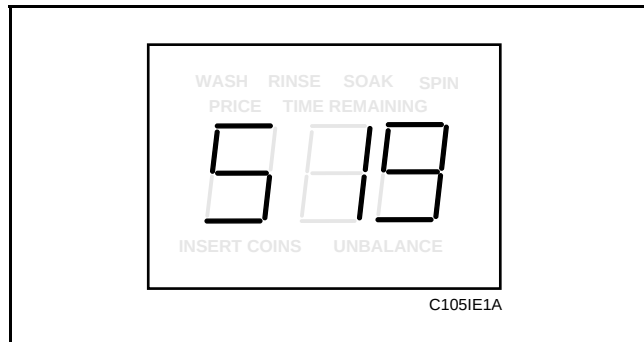


Figure 7

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “HnC” appears in the VFD. See **Figure 8**.

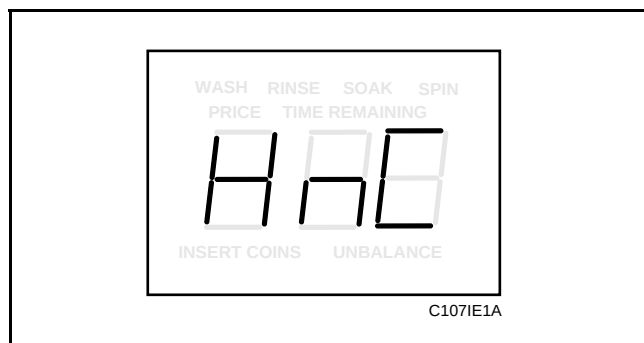


Figure 8

4. When “HnC” appears in the VFD, press the PERM PRESS pad. The current number of coins required to fulfill the Hot Wash Vend Price will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the current number of coins displayed in the VFD to the desired number of coins. See **Figure 9**.

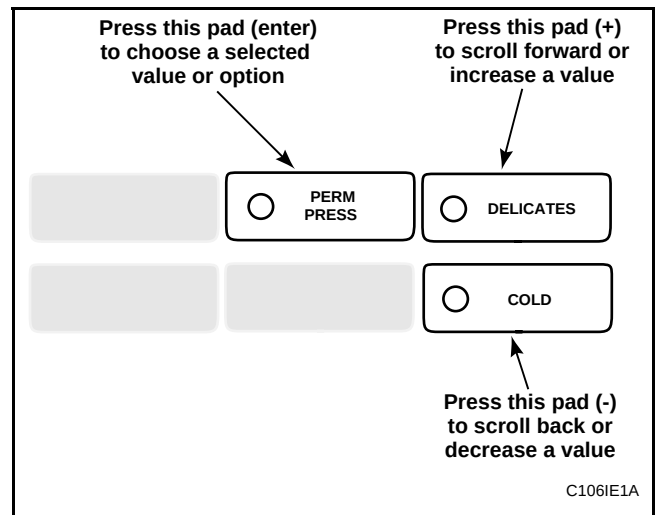


Figure 9

6. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “AnC”, will appear in the VFD.

NOTE: To program “AnC” (Warm Wash Number of Coins), see option 3. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

3. Warm Wash Number of Coins “AnC”

This option allows the user to set the vend price for a warm wash. This vend price will be displayed in the VFD when WARM is selected.

How to Program the Warm Wash

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 10**.

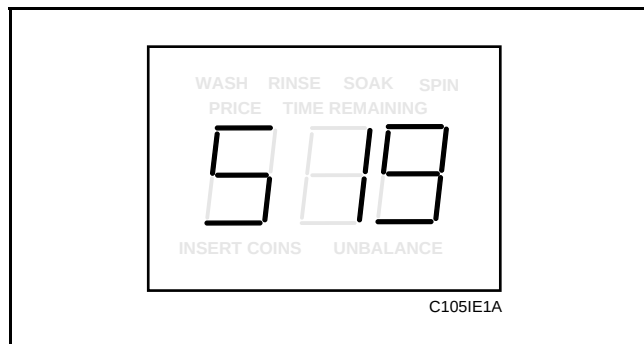


Figure 10

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “AnC” appears in the VFD. See **Figure 11**.

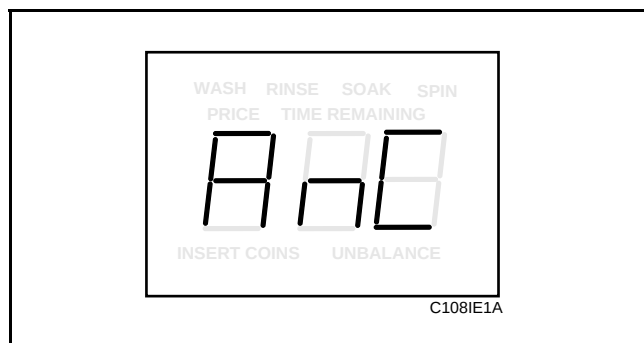


Figure 11

4. When “AnC” appears in the VFD, press the PERM PRESS pad. The current number of coins required to fulfill the Warm Wash Vend Price will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the current number of coins displayed in the VFD to the desired number of coins. See **Figure 12**.

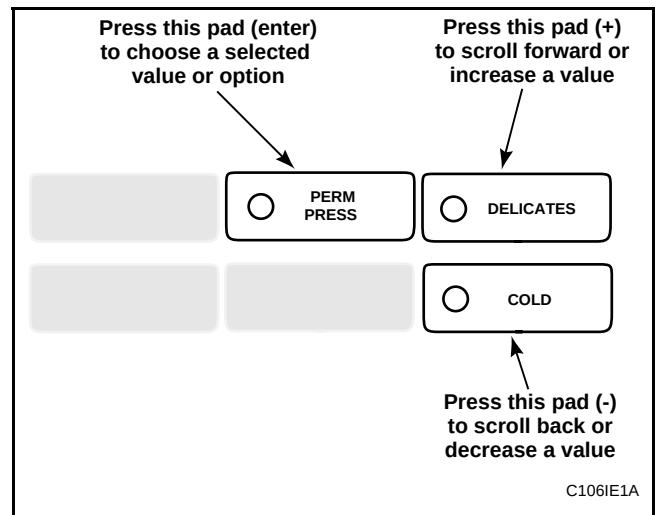


Figure 12

6. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “dnC”, will appear in the VFD.

NOTE: To program “dnC” (Cold Wash Number of Coins), see option 4. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

4. Cold Wash Number of Coins “dnC”

This option allows the user to set the vend price for a cold wash. This vend price will be displayed in the VFD when COLD is selected.

How to Program the Cold Wash

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 13**.

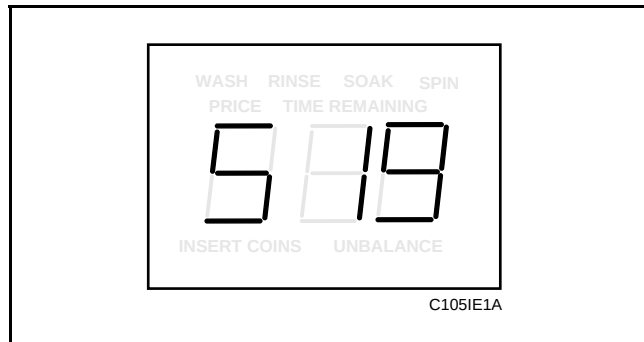


Figure 13

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “dnC” appears in the VFD. See **Figure 14**.

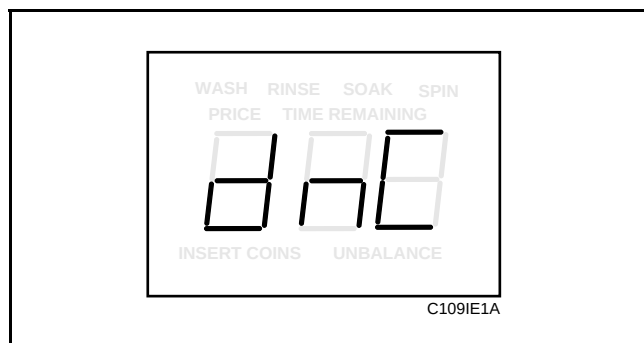


Figure 14

4. When “dnC” appears in the VFD, press the PERM PRESS pad. The current number of coins required to fulfill the Cold Wash Vend Price will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of coins displayed in the VFD to the desired number of coins. See **Figure 15**.

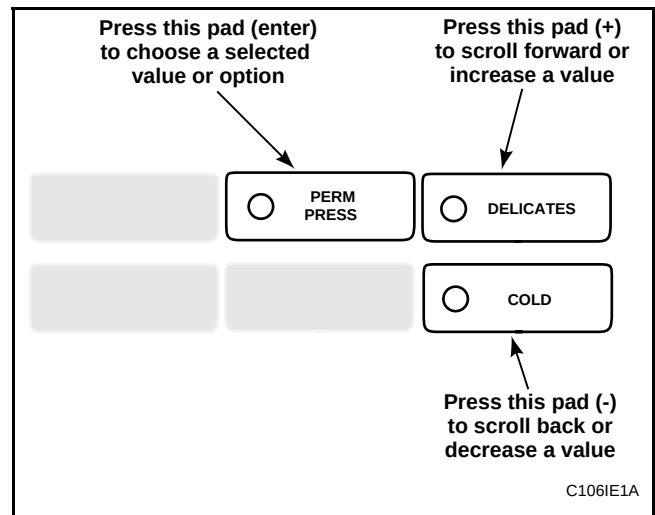


Figure 15

6. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “SPA”, will appear in the VFD.

NOTE: To program “SPA” (Special Vend A Days), see option 5. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

5. Special Vend A Days ON “SPA”

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

Special Vend A is used to interrupt the standard vend cycles for special occasions. 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 Days of Week

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 16**.

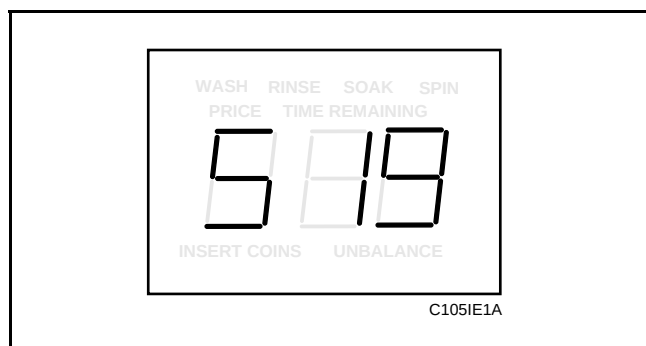


Figure 16

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “SPA” appears in the VFD. See **Figure 17**.

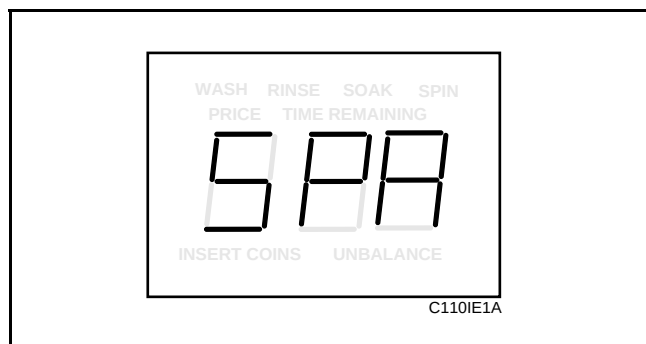


Figure 17

4. When “SPA” appears in the VFD, press the PERM PRESS pad. A three digit number will appear in the VFD.

NOTE: The number appearing in the VFD is the current number that was selected from Chart 2 beginning on the following page.

5. Locate the desired three digit number in the first column of Chart 2 on the following pages.
6. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current three digit number until correct. See **Figure 18**.

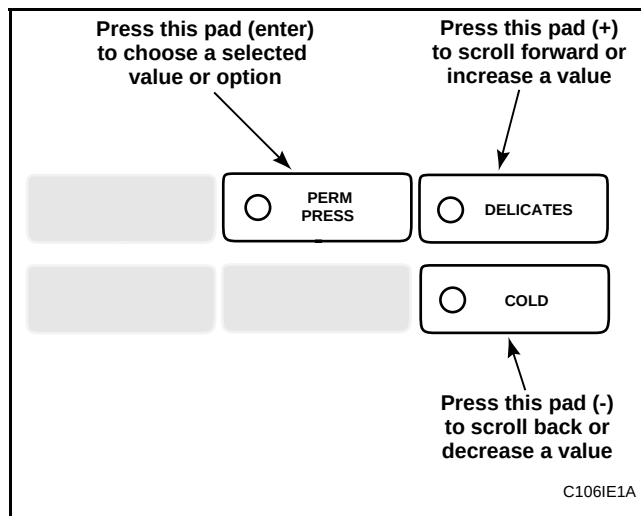


Figure 18

7. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “SAS”, will appear in the VFD.

NOTE: To program “SAS” (Special Vend A Start Time), see **option 6**. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

How to read Chart 2

To determine the correct three digit number required in step 4 on the previous page, review the chart below. Read Chart 2 from left to right. Each row begins with a three digit number required in step 4.

Each three digit number in the first column is followed by the words ON or OFF in the following columns. The word ON or OFF indicates if the option at the top of that column is turned on or turned off when that number is entered.

Chart 2: “SPA”

“SPA” VALUE	SAT	FRI	THUR	WED	TUE	MON	SUN	ON/OFF
000	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
003	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
005	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
007	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
009	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
011	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
013	OFF	OFF	OFF	OFF	ON	ON	OFF	ON
015	OFF	OFF	OFF	OFF	ON	ON	ON	ON
017	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
019	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
021	OFF	OFF	OFF	ON	OFF	ON	OFF	ON
023	OFF	OFF	OFF	ON	OFF	ON	ON	ON
025	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
027	OFF	OFF	OFF	ON	ON	OFF	ON	ON
029	OFF	OFF	OFF	ON	ON	ON	OFF	ON
031	OFF	OFF	OFF	ON	ON	ON	ON	ON
033	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
035	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
037	OFF	OFF	ON	OFF	OFF	ON	OFF	ON
039	OFF	OFF	ON	OFF	OFF	ON	ON	ON
041	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
043	OFF	OFF	ON	OFF	ON	OFF	ON	ON
045	OFF	OFF	ON	OFF	ON	ON	OFF	ON
047	OFF	OFF	ON	OFF	ON	ON	ON	ON
049	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
051	OFF	OFF	ON	ON	OFF	OFF	ON	ON
053	OFF	OFF	ON	ON	OFF	ON	OFF	ON
055	OFF	OFF	ON	ON	OFF	ON	ON	ON
057	OFF	OFF	ON	ON	ON	OFF	OFF	ON
059	OFF	OFF	ON	ON	ON	OFF	ON	ON
061	OFF	OFF	ON	ON	ON	ON	OFF	ON
063	OFF	OFF	ON	ON	ON	ON	ON	ON
065	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
067	OFF	ON	OFF	OFF	OFF	OFF	ON	ON
069	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
071	OFF	ON	OFF	OFF	OFF	ON	ON	ON
073	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
075	OFF	ON	OFF	OFF	ON	OFF	ON	ON
077	OFF	ON	OFF	OFF	ON	ON	OFF	ON

Chart 2: (Page 1 of 3)

Chart 2: “SPA” (Continued)

“SPA” VALUE	SAT	FRI	THUR	WED	TUE	MON	SUN	ON/OFF
079	OFF	ON	OFF	OFF	ON	ON	ON	ON
081	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
083	OFF	ON	OFF	ON	OFF	OFF	ON	ON
085	OFF	ON	OFF	ON	OFF	ON	OFF	ON
087	OFF	ON	OFF	ON	OFF	ON	ON	ON
089	OFF	ON	OFF	ON	ON	OFF	OFF	ON
091	OFF	ON	OFF	ON	ON	OFF	ON	ON
093	OFF	ON	OFF	ON	ON	ON	OFF	ON
095	OFF	ON	OFF	ON	ON	ON	ON	ON
097	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
099	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
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

Chart 2: (Page 2 of 3)

Chart 2: “SPA” (Continued)

“SPA” VALUE	SAT	FRI	THUR	WED	TUE	MON	SUN	ON/OFF
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
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

Chart 2: (Page 3 of 3)

6. Special Vend A Start Time “SAS”

This option allows the user to set the time that Special Vend A will begin.

How to Program Special Vend A Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 19**.

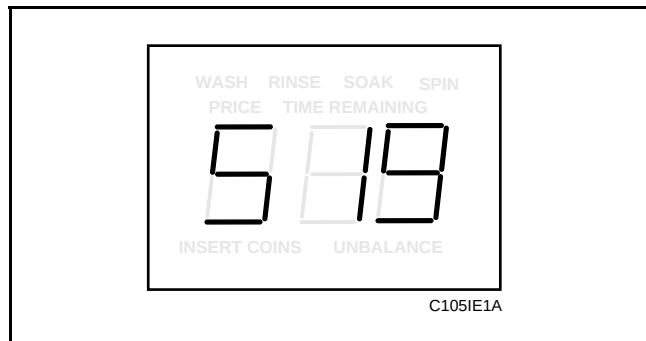


Figure 19

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “SAS” appears in the VFD. See **Figure 20**.

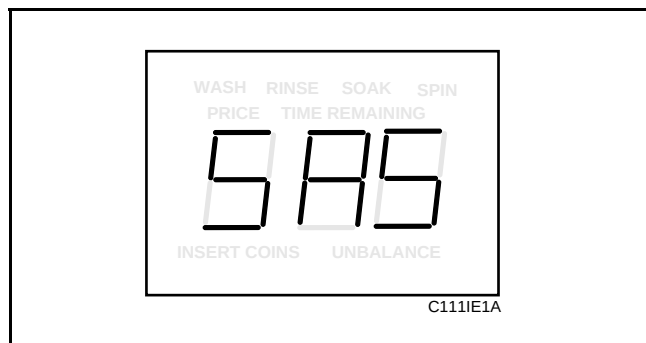


Figure 20

4. When “SAS” appears in the VFD, press the PERM PRESS pad. The current start time (in military time) will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current hour to the desired hour. See **Figure 21**.

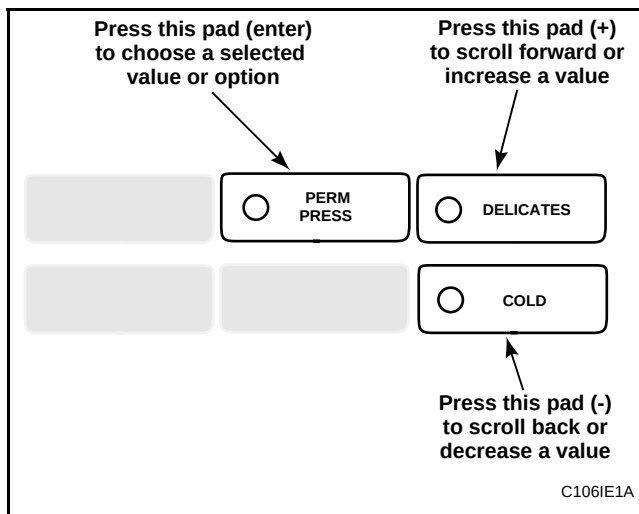


Figure 21

6. Press the PERM PRESS (enter) keypad when the correct hour appears in the VFD. The next option, “SAE”, will appear in the VFD.

NOTE: To program “SAE” (Special Vend A End Time), see option 7. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

7. Special Vend A End Time “SAE”

This option allows the user to set the time that Special Vend A will end.

How to Program Special Vend A End Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 22**.

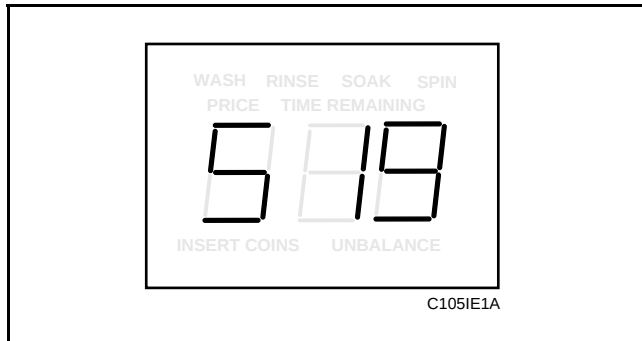


Figure 22

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “SAE” appears in the VFD. See **Figure 23**.

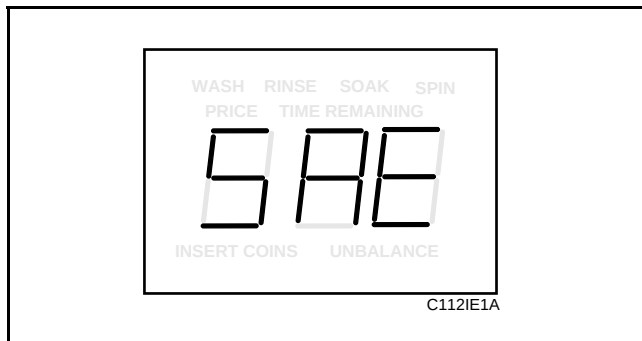


Figure 23

4. When “SAE” appears in the VFD, press the PERM PRESS pad. The current end time (in military time) will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current hour to the desired hour. See **Figure 24**.

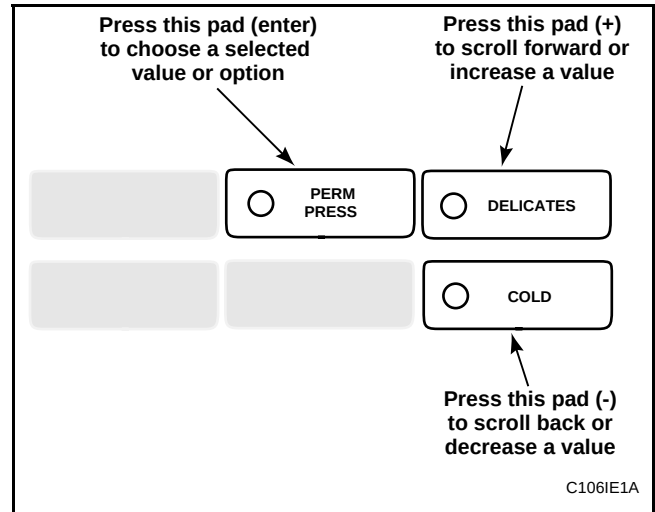


Figure 24

6. Press the PERM PRESS (enter) keypad when the correct hour appears in the VFD. The next option, “SHC”, will appear in the VFD.

NOTE: To program “SHC” (Special Vend A Hot Wash Number of Coins), see option 8. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

8. Special Vend A Hot Wash Number of Coins “SHC”

This option allows the user to set the vend price for a HOT Wash in Special Vend A.

How to Program Special Vend A HOT Wash Number of Coins

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 25**.

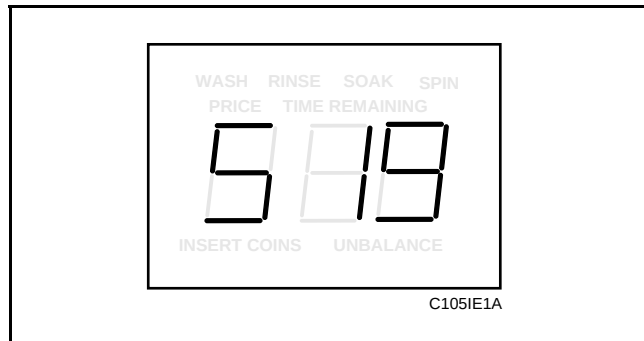


Figure 25

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “SHC” appears in the VFD. See **Figure 26**.

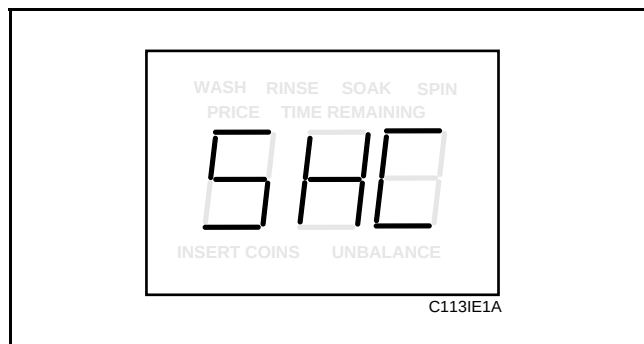


Figure 26

4. When “SHC” appears in the VFD, press the PERM PRESS pad. The current number of coins required to fulfill the Special Vend A HOT Wash will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of coins displayed in the VFD to the desired number of coins. See **Figure 27**.

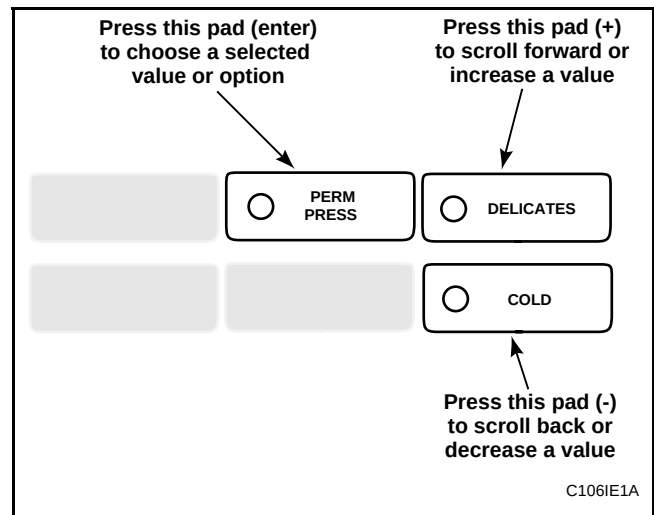


Figure 27

6. Press the PERM PRESS (enter) keypad when the correct number of coins appears in the VFD. The next option, “rnC”, will appear in the VFD.

NOTE: To program “rnC” (Special Vend A Warm Wash Number of Coins), see option 9. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

9. Special Vend A Warm Wash Number of Coins “rnC”

This option allows the user to set the vend price for a WARM Wash in Special Vend A.

How to Program Special Vend A WARM Wash Number of Coins

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 28**.

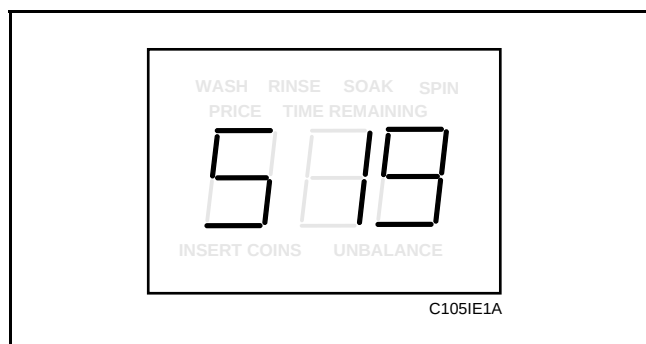


Figure 28

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “rnC” appears in the VFD. See **Figure 29**.

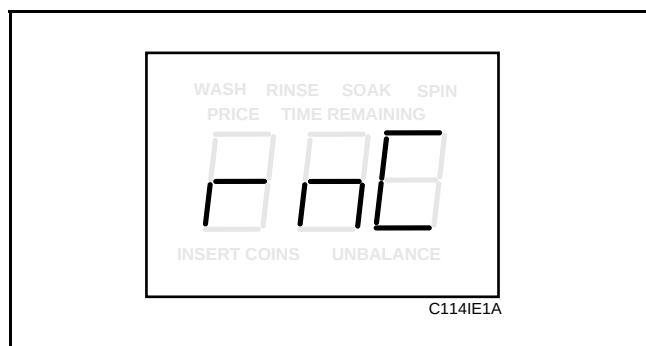


Figure 29

4. When “rnC” appears in the VFD, press the PERM PRESS pad. The current number of coins required to fulfill the Special Vend A WARM Wash will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the current number of coins displayed in the VFD to the desired number of coins. See **Figure 30**.

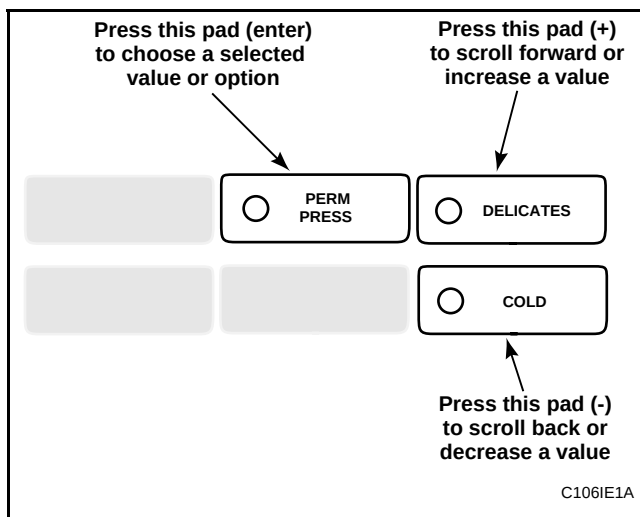


Figure 30

6. Press the PERM PRESS (enter) keypad when the correct number of coins appears in the VFD. The next option, “CnC”, will appear in the VFD.

NOTE: To program “CnC” (Special Vend A Cold Wash Number of Coins), see option 10. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

10. Special Vend A Cold Wash Number of Coins “CnC”

This option allows the user to set the vend price for a COLD Wash in Special Vend A.

How to Program Special Vend A COLD Wash Number of Coins

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 31**.

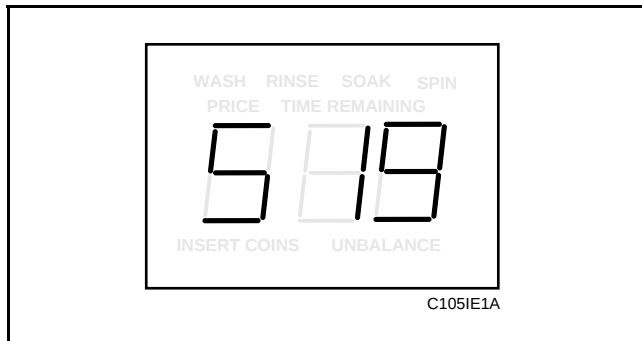


Figure 31

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “CnC” appears in the VFD. See **Figure 32**.

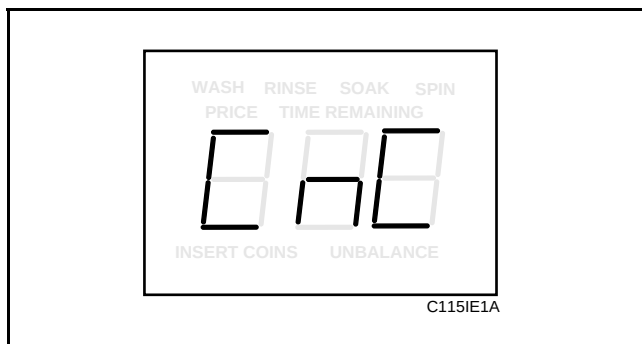


Figure 32

4. When “CnC” appears in the VFD, press the PERM PRESS pad. The current number of coins required to fulfill the Special Vend A COLD Wash will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the current number of coins displayed in the VFD to the desired number of coins. See **Figure 33**.

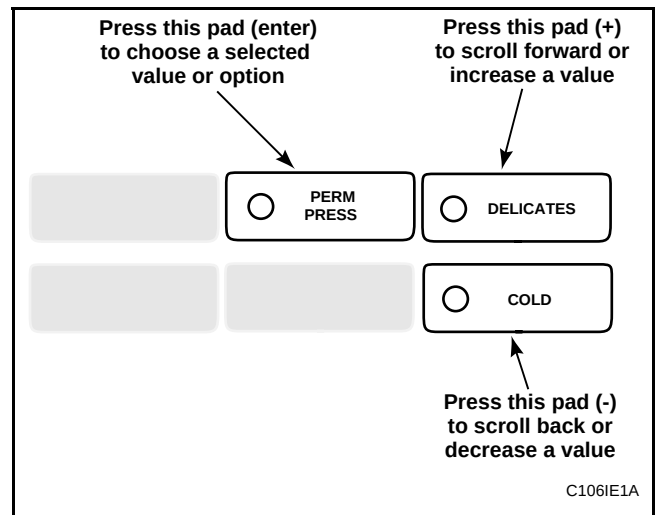


Figure 33

6. Press the PERM PRESS (enter) keypad when the correct number of coins appears in the VFD. The next option, “nAg”, will appear in the VFD.

NOTE: To program “nAg” (Normal Wash Agitate Time), see option 11. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

11. Normal Wash Agitate Time “nAg”

This option allows the user to set the amount of wash agitate time for the Normal cycle.

How to Program Normal Wash Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 34**.

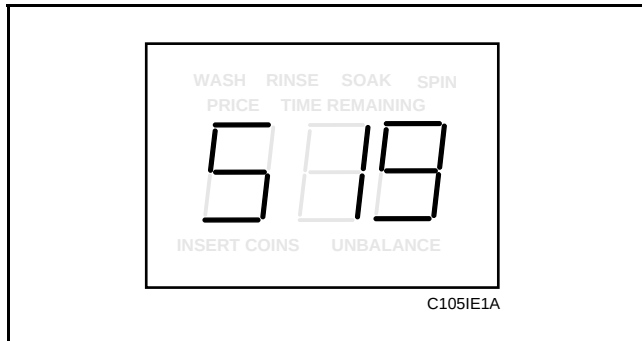


Figure 34

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “nAg” appears in the VFD. See **Figure 35**.

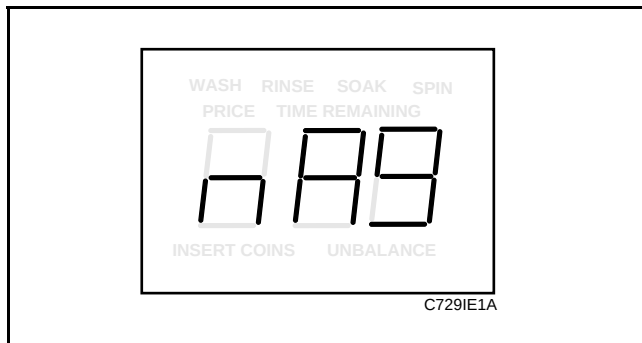


Figure 35

4. When “nAg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Normal Wash Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 36**.

NOTE: The Normal Wash Agitate Time can be set from one (1) to 15 minutes.

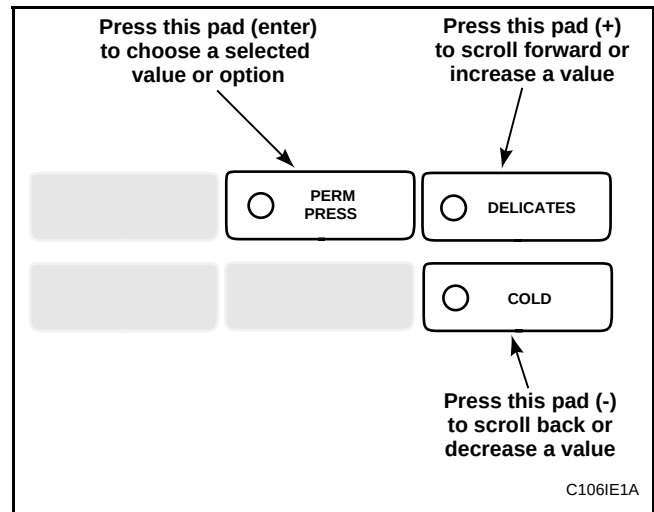


Figure 36

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

NOTE: To program “nrg” (Normal Rinse Agitate Time), see option 12. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

12. Normal Rinse Agitate Time “nrg”

This option allows the user to set the amount of rinse agitate time for the Normal cycle.

How to Program Normal Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 37**.

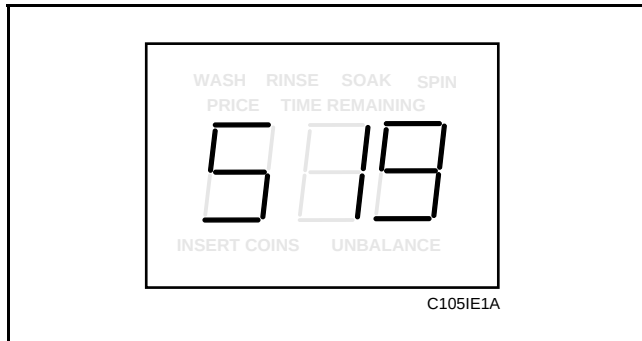


Figure 37

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “nrg” appears in the VFD. See **Figure 38**.

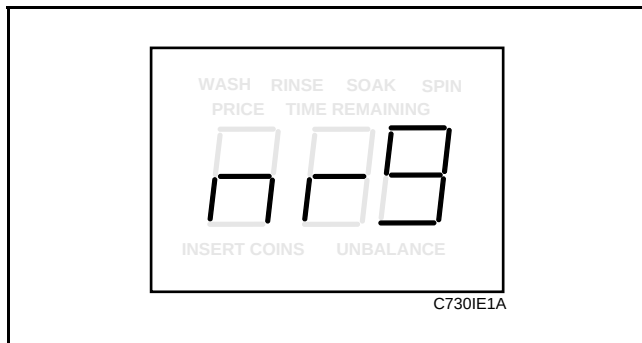


Figure 38

4. When “nrg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Normal Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 39**.

NOTE: The Normal Rinse Agitate Time can be set from one (1) to 15 minutes.

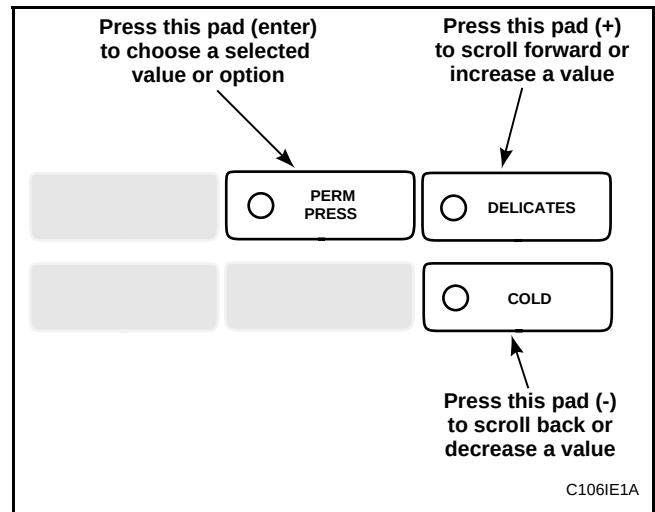


Figure 39

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

NOTE: To program “nEg” (Normal extra Rinse Agitate Time), see option 13. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

13. Normal Extra Rinse Agitate Time “nEg”

This option allows the user to set the amount of time for an extra rinse agitate in the Normal cycle.

How to Program Normal Extra Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 40**.

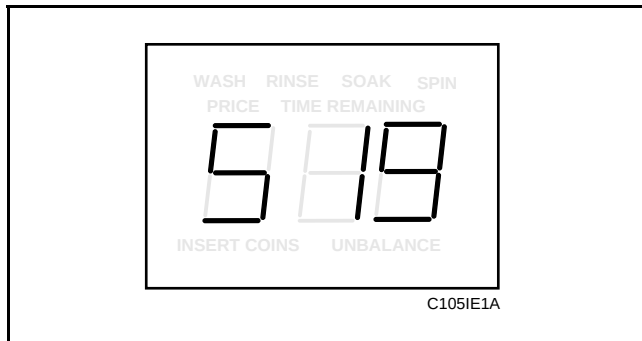


Figure 40

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “nEg” appears in the VFD. See **Figure 41**.

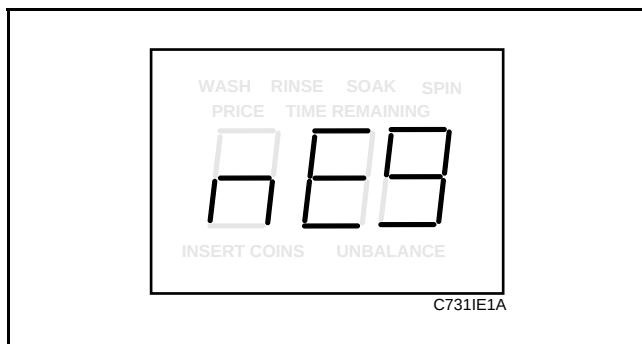


Figure 41

4. When “nEg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Normal Extra Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 42**.

NOTE: The Normal Extra Rinse Agitate Time can be set from one (1) to 15 minutes.

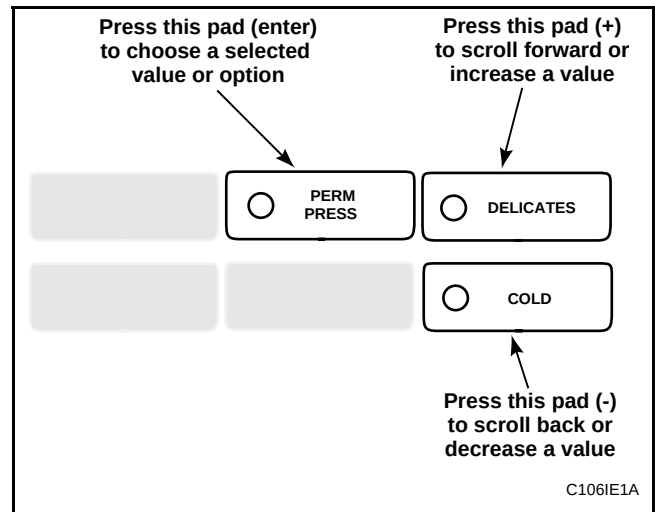


Figure 42

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

NOTE: To program “nFg” (Normal Final Rinse Agitate Time), see option 14. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

14. Normal Final Rinse Agitate Time “nFg”

This option allows the user to set the amount of time for a final rinse agitate in the Normal cycle.

How to Program Normal Extra Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 43**.

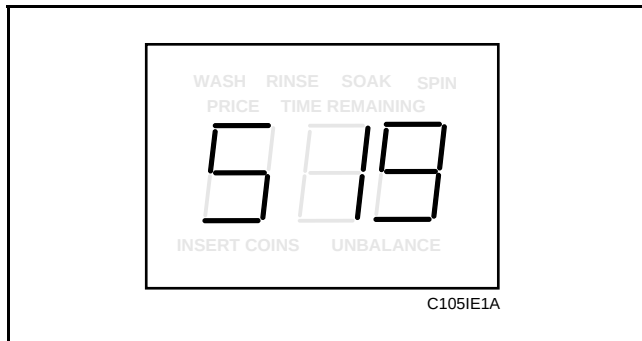


Figure 43

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “nFg” appears in the VFD. See **Figure 44**.

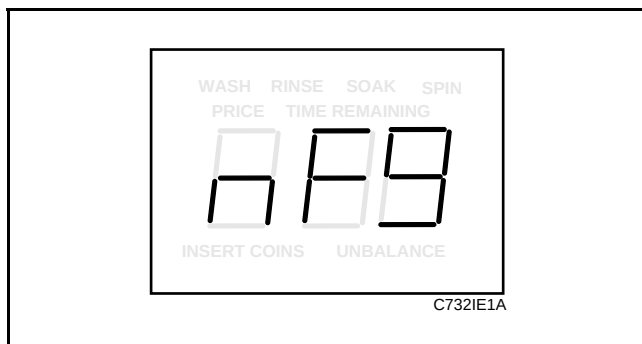


Figure 44

4. When “nFg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Normal Final Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 45**.

NOTE: The Normal Final Rinse Agitate Time can be set from one (1) to 15 minutes.

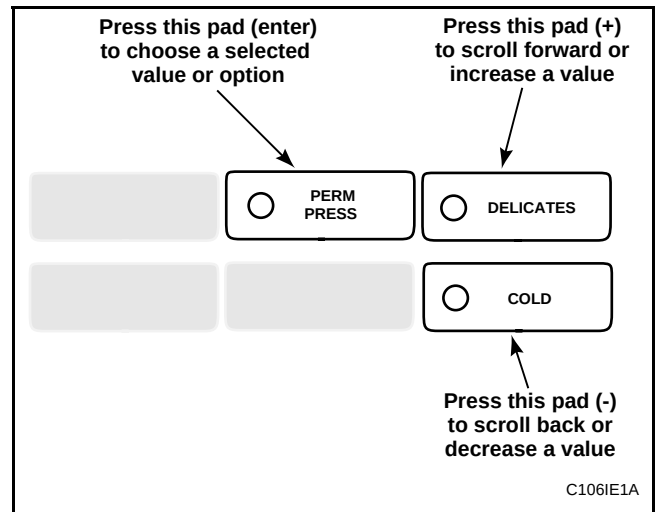


Figure 45

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

NOTE: To program “PAg” (Permanent Press Wash Agitate Time), see option 15. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

15. Permanent Press Wash Agitate Time “PAg”

This option allows the user to set the amount of wash agitate time for the Permanent Press cycle.

How to Program Permanent Press Wash Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 46**.

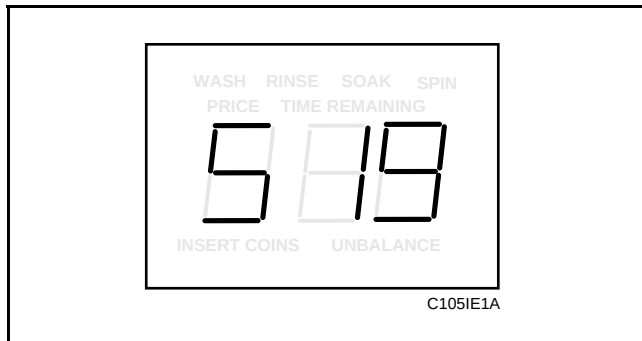


Figure 46

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “PAg” appears in the VFD. See **Figure 47**.

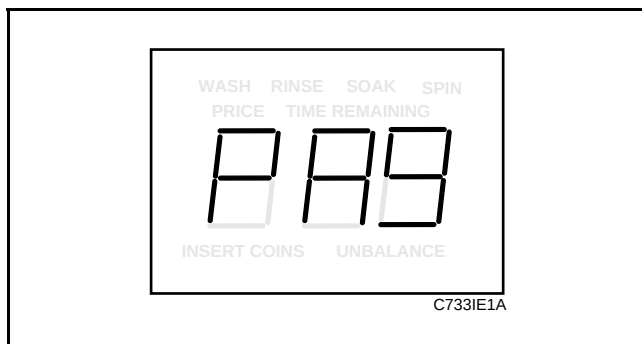


Figure 47

4. When “PAg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Permanent Press Wash Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 48**.

NOTE: The Permanent Press Wash Agitate Time can be set from one (1) to 15 minutes.

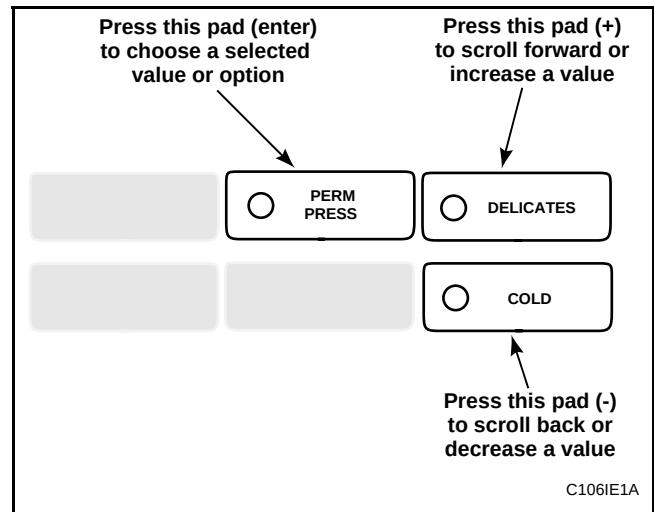


Figure 48

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

NOTE: To program “Prg” (Permanent Press Rinse Agitate Time), see *option 16*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

16. Permanent Press Rinse Agitate Time “Prg”

This option allows the user to set the amount of rinse agitate time for the Permanent Press cycle.

How to Program Permanent Press Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 49**.

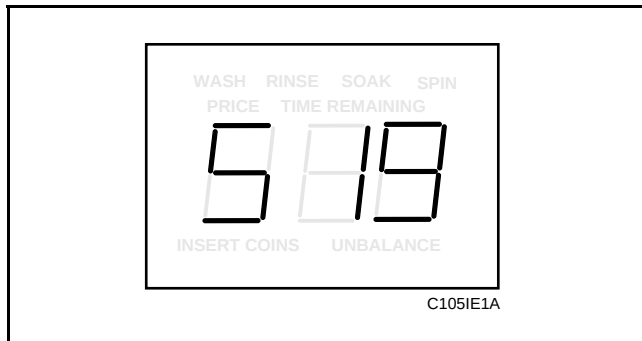


Figure 49

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “Prg” appears in the VFD. See **Figure 50**.

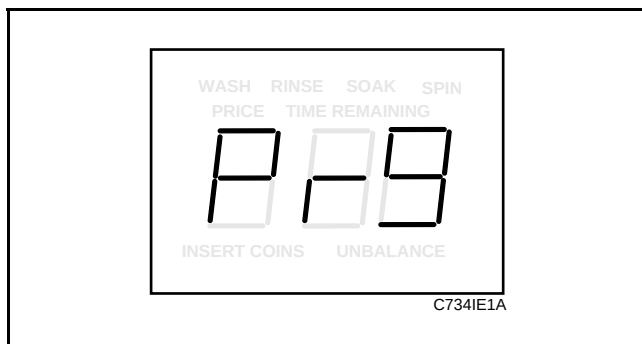


Figure 50

4. When “Prg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Permanent Press Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 51**.

NOTE: The Permanent Press Rinse Agitate Time can be set from one (1) to 15 minutes.

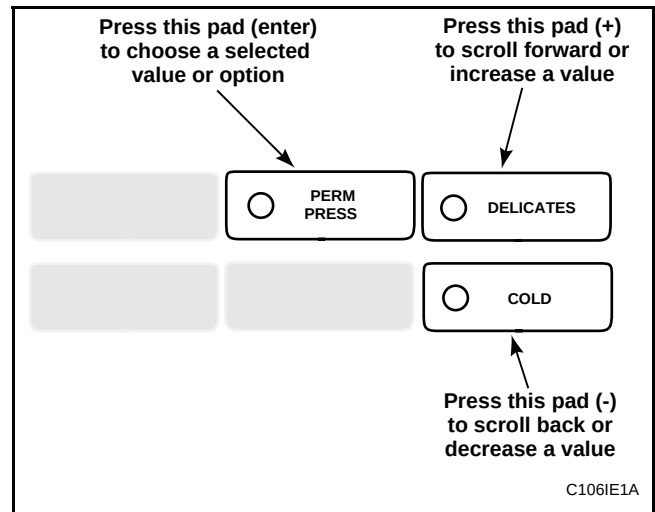


Figure 51

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

NOTE: To program “PEg” (Permanent Press Extra Rinse Agitate Time), see option 17. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

17. Permanent Press Extra Rinse Agitate Time “PEg”

This option allows the user to set the amount of extra rinse agitate time for the Permanent Press cycle.

How to Program Permanent Press Extra Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 52**.

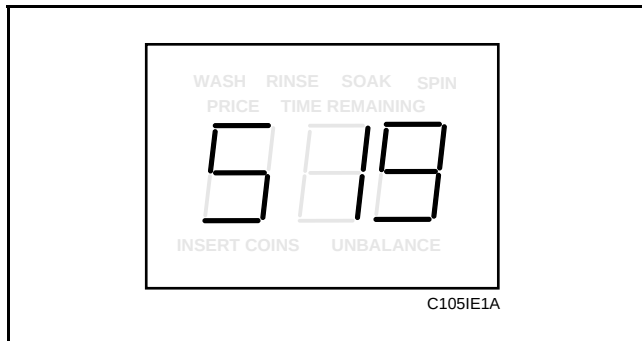


Figure 52

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “PEg” appears in the VFD. See **Figure 53**.

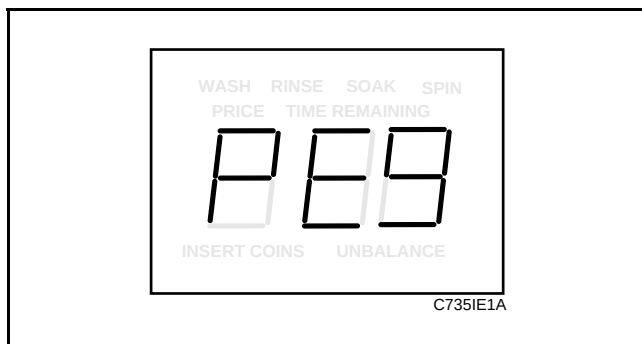


Figure 53

4. When “PEg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Permanent Press Extra Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 54**.

NOTE: The Permanent Press Extra Rinse Agitate Time can be set from one (1) to 15 minutes.

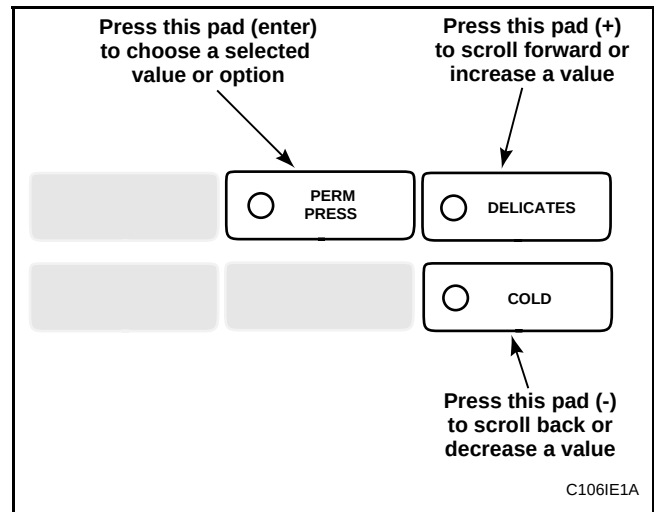


Figure 54

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

NOTE: To program “PFg” (Permanent Press Final Rinse Agitate Time), see option 18. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

18. Permanent Press Final Rinse Agitate Time “PFg”

This option allows the user to set the amount of final rinse agitate time for the Permanent Press cycle.

How to Program Permanent Press Final Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 55**.

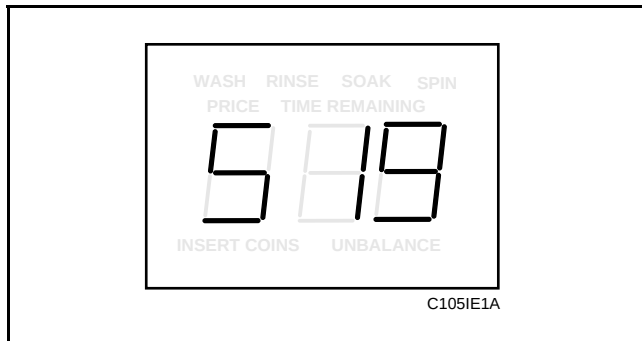


Figure 55

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “PFg” appears in the VFD. See **Figure 56**.

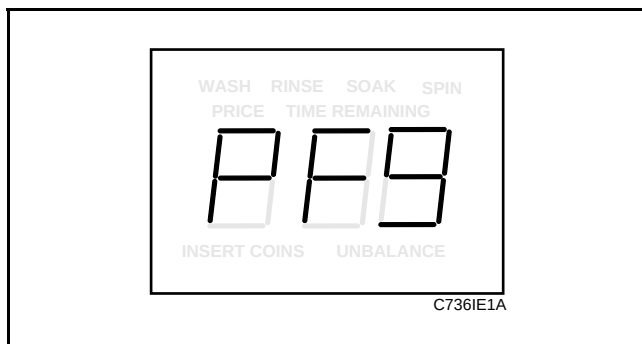


Figure 56

4. When “PFg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Permanent Press Final Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 57**.

NOTE: The Permanent Press Final Rinse Agitate Time can be set from one (1) to 15 minutes.

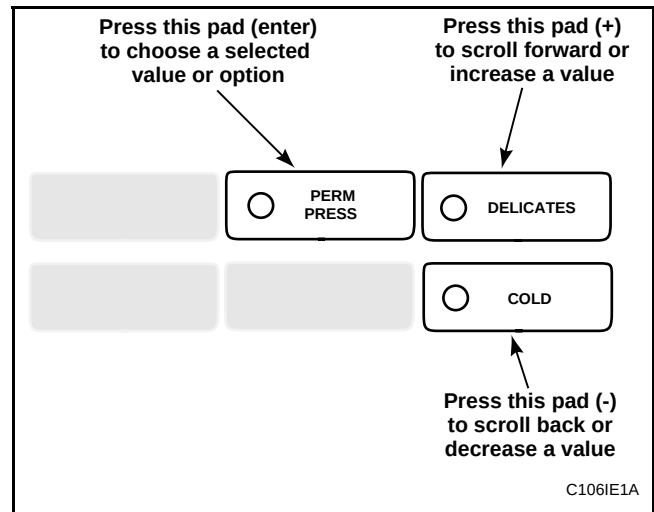


Figure 57

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

NOTE: To program “dAg” (Delicates Wash Agitate Time), see *option 19*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

19. Delicates Wash Agitate Time “dAg”

This option allows the user to set the amount of wash agitate time for the Delicates cycle.

How to Program Delicates Wash Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 58**.

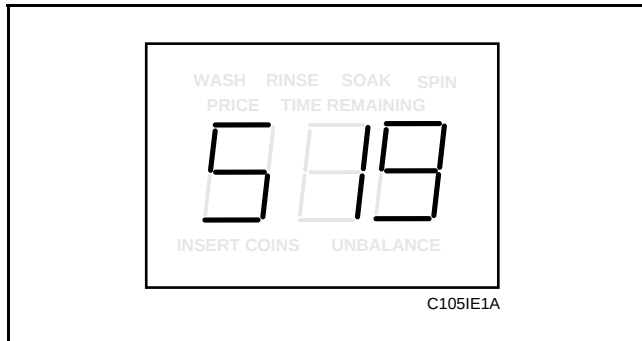


Figure 58

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “dAg” appears in the VFD. See **Figure 59**.

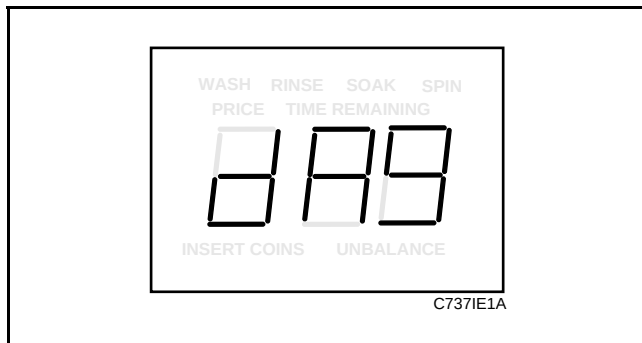


Figure 59

4. When “dAg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Delicates Wash Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 60**.

NOTE: The Delicates Wash Agitate Time can be set from one (1) to 15 minutes.

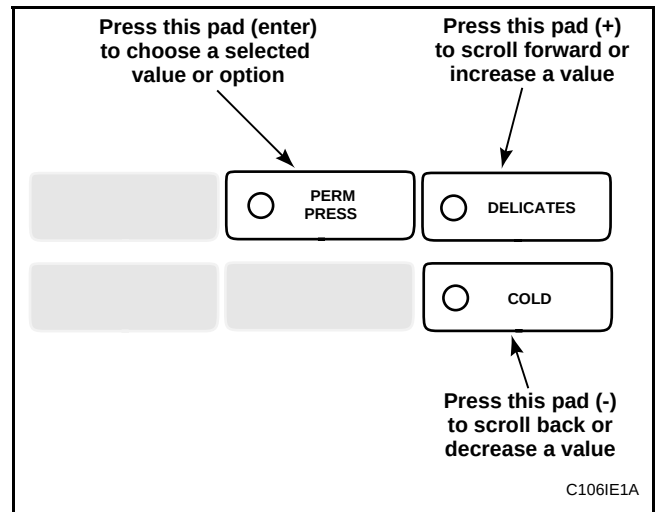


Figure 60

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

NOTE: To program “drg” (Delicates Rinse Agitate Time), see option 20. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

20. Delicates Rinse Agitate Time “drg”

This option allows the user to set the amount of rinse agitate time for the Delicates cycle.

How to Program Delicates Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 61**.

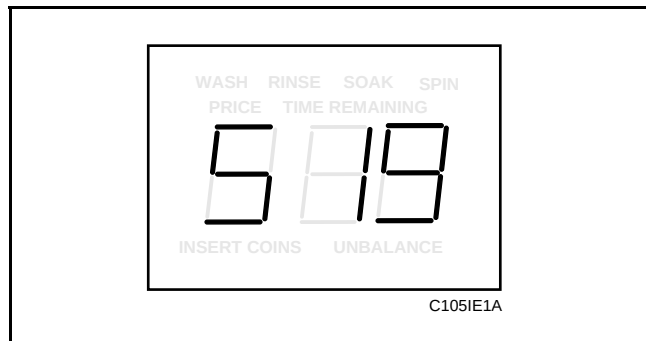


Figure 61

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “drg” appears in the VFD. See **Figure 62**.

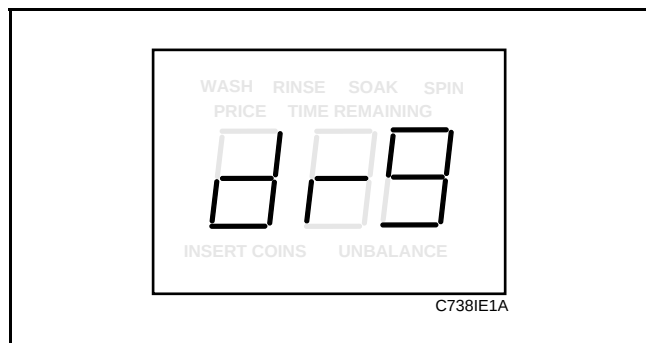


Figure 62

4. When “drg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Delicates Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 63**.

NOTE: The Delicates Rinse Agitate Time can be set from one (1) to 15 minutes.

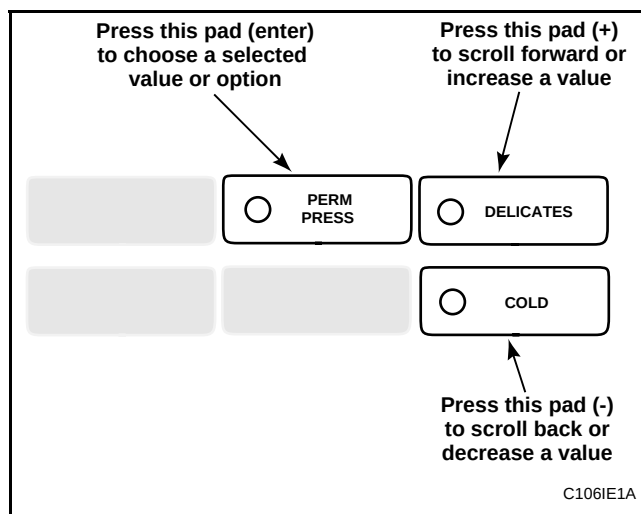


Figure 63

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

NOTE: To program “dEg” (Delicates Extra Rinse Agitate Time), see *option 21*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

21. Delicates Extra Rinse Agitate Time “dEg”

This option allows the user to set the amount of extra rinse agitate time for the Delicates cycle.

How to Program Delicates Extra Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 64**.

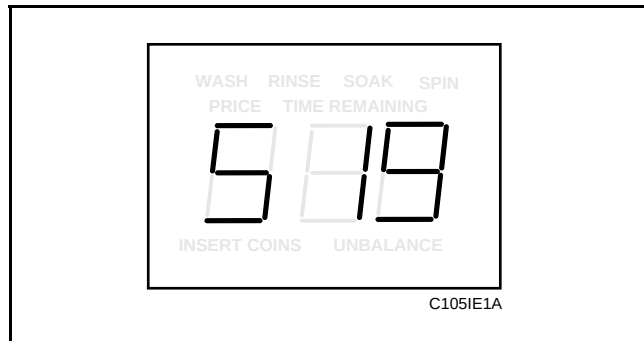


Figure 64

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “dEg” appears in the VFD. See **Figure 65**.

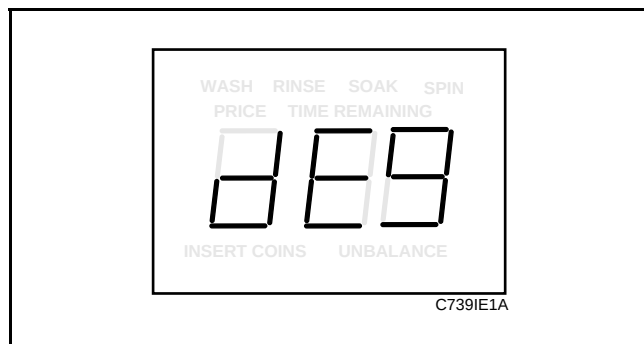


Figure 65

4. When “dEg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Delicates Extra Rinse Agitate time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 66**.

NOTE: The Delicates Extra Rinse Agitate Time can be set from one (1) to 15 minutes.

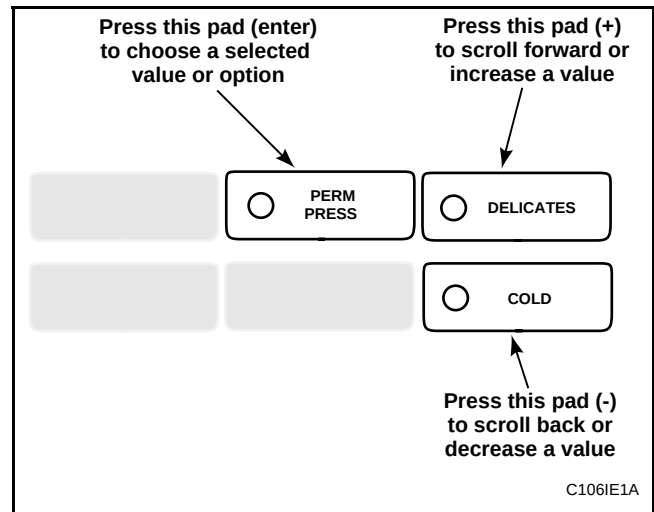


Figure 66

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

NOTE: To program “dFg” (Delicates Final Rinse Agitate Time), see option 22. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

22. Delicates Final Rinse Agitate Time “dFg”

This option allows the user to set the amount of final rinse agitate time for the Delicates cycle.

How to Program Delicates Final Rinse Agitate Time

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 67**.

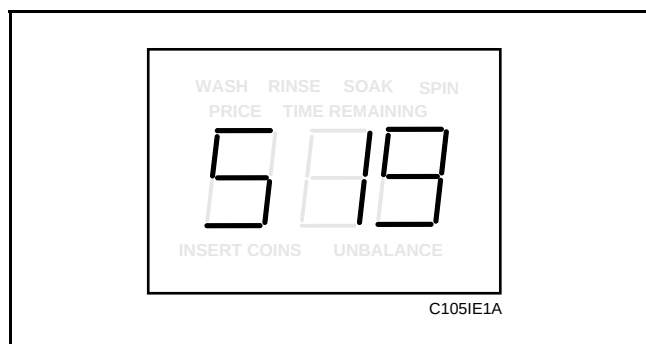


Figure 67

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “dFg” appears in the VFD. See **Figure 68**.

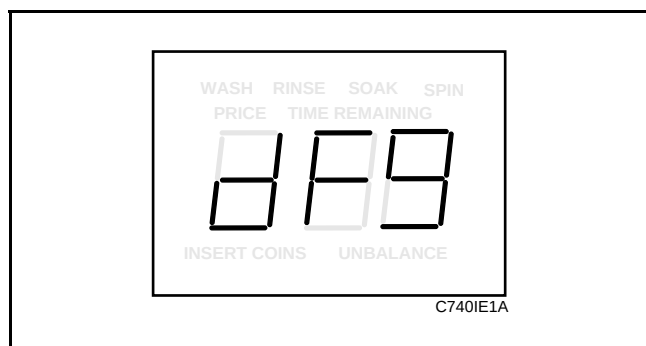


Figure 68

4. When “dFg” appears in the VFD, press the PERM PRESS pad. The current number of minutes set for the Delicates Final Rinse Agitate Time will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number of minutes displayed in the VFD to the desired number of minutes. See **Figure 69**.

NOTE: The Delicates Final Rinse Agitate Time can be set from one (1) to 15 minutes.

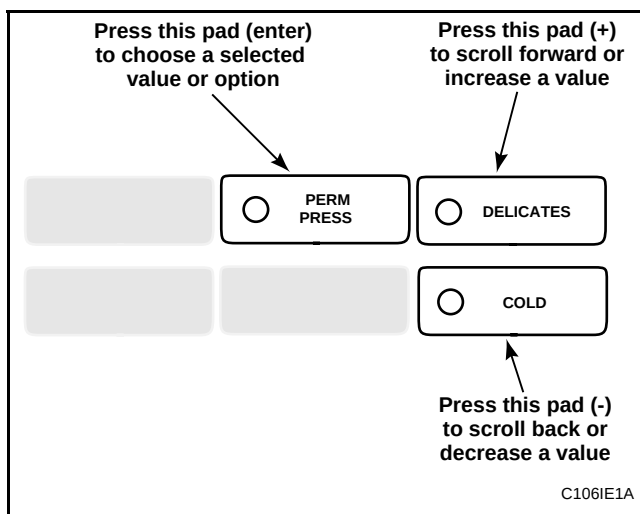


Figure 69

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

NOTE: To program “COI” (Coin Value), see option 23. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

23. Coin Value “COI”

This option allows the user 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 value entered for one quarter would be 025.

If the Hot Wash Number of Coins (*option 2*) is set for 3 coins, and the Coin Value is set for “025,” the vend price for a Hot Wash will be “.75.”

How to Program Coin Value

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 70**.

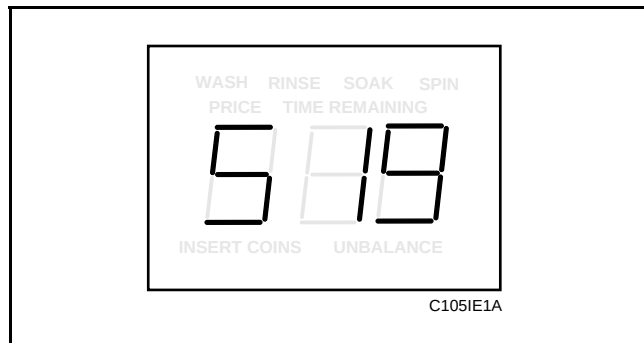


Figure 70

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “COI” appears in the VFD. See **Figure 71**.

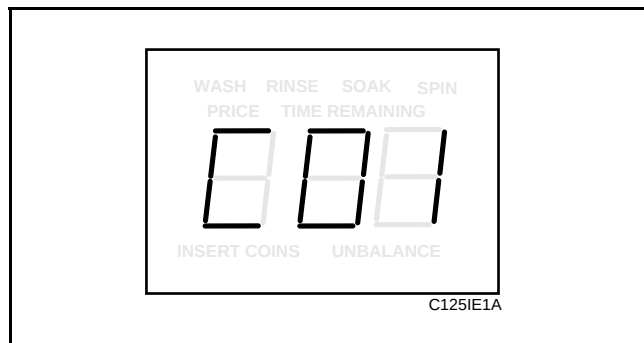


Figure 71

4. When “COI” appears in the VFD, press the PERM PRESS pad. The current coin value will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current three digit number to the desired three digit number. See **Figure 72**.

NOTE: The coin value can be set from 1 to 231.

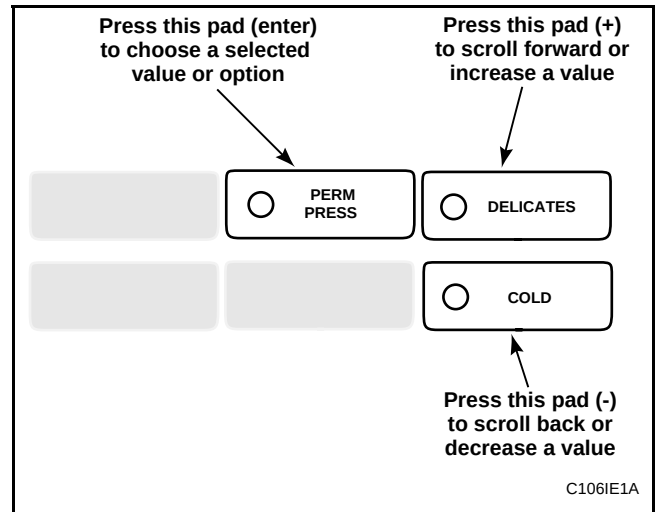


Figure 72

6. Press the PERM PRESS (enter) keypad when the correct coin value appears in the VFD. The next option, “dCS”, will appear in the VFD.

NOTE: To program “dCS” (Default Cycle Select), see option 24. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

24. Default Cycle Select “dCS”

This option allows the user to set the default cycle the machine will enter when in the default mode. When programming the default cycle, refer to Chart 3 on the following page.

How to Program the Default Cycle

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 73**.

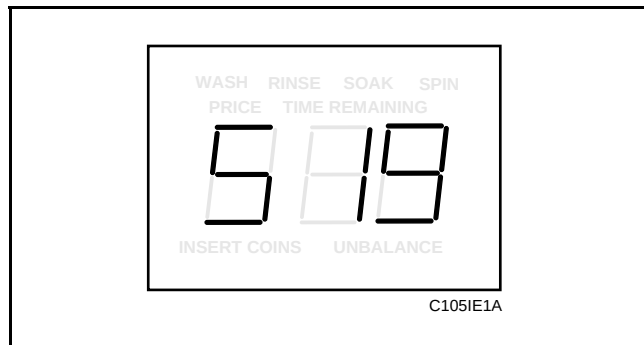


Figure 73

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “dCS” appears in the VFD. See **Figure 74**.

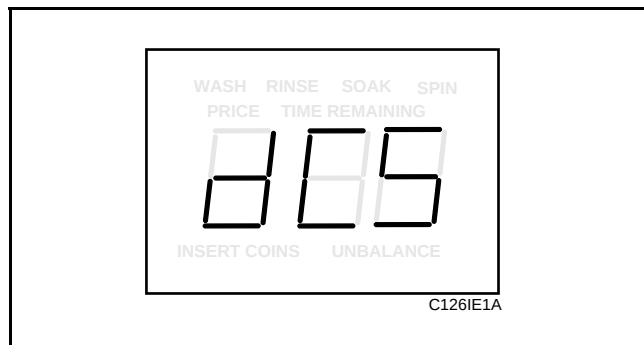


Figure 74

4. When “dCS” appears in the VFD, press the PERM PRESS pad. A three digit number will appear in the VFD.

NOTE: The number appearing in the VFD is the current number that was previously selected from Chart 3 on the following page. DO NOT select any number that is not listed in Chart 3.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current number to the desired number selected from Chart 3. See **Figure 75**.

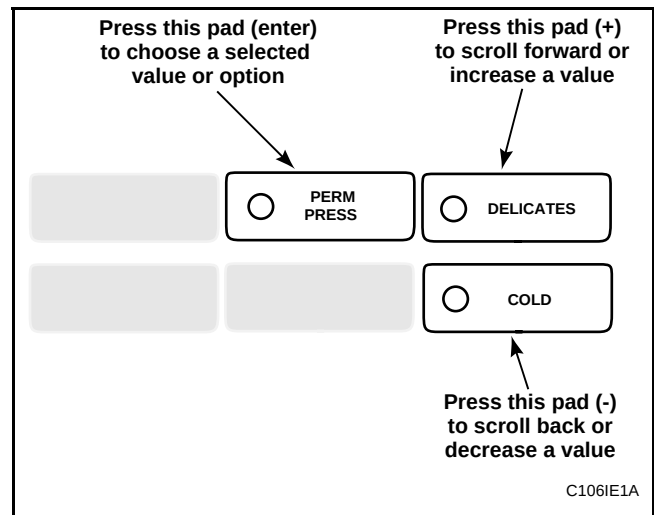


Figure 75

6. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “rPF”, will appear in the VFD.

NOTE: To program “rPF” (Reset after a Power Failure), see option 25. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

How to Read Chart 3

To determine the correct number required in step 4 on the previous page, review the chart below. Read Chart 3 from left to right. Each row begins with a three digit number required in step 4.

Each number in the first column is followed by the words ON or OFF in the following columns. The word ON or OFF indicates if the option at the top of that column is turned on or turned off when that number is entered.

Chart 3: “dCS”

Default Value	Normal Cycle	Perm Press Cycle	Delicates Cycle	Hot Wash	Warm Wash	Cold Wash
009	OFF	OFF	ON	OFF	OFF	ON
017	OFF	ON	OFF	OFF	OFF	ON
033	ON	OFF	OFF	OFF	OFF	ON
010	OFF	OFF	ON	OFF	ON	OFF
018	OFF	ON	OFF	OFF	ON	OFF
034	ON	OFF	OFF	OFF	ON	OFF
012	OFF	OFF	ON	ON	OFF	OFF
020	OFF	ON	OFF	ON	OFF	OFF
036	ON	OFF	OFF	ON	OFF	OFF

25. Reset After a Power Failure “rPF”

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

How to Program Power Fail Reset

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 76**.

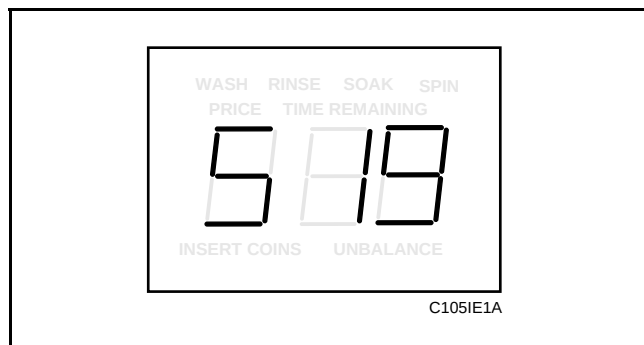


Figure 76

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “rPF” appears in the VFD. See **Figure 77**.

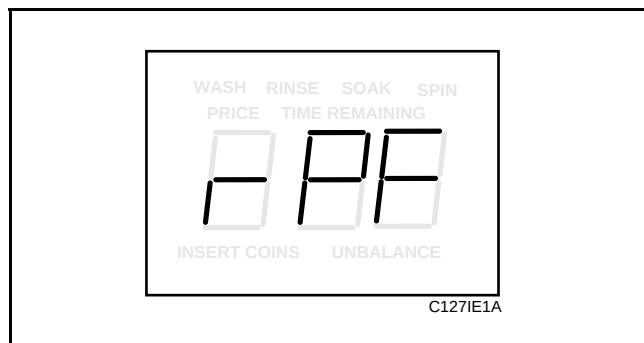


Figure 77

4. When “rPF” appears in the VFD, press the PERM PRESS pad. A three digit number will appear in the VFD.

NOTE: The number appearing in the VFD is the current number that was previously selected from Chart 4 on the following page. The default setting 005 will show in the VFD, which is Power Fail Reset OFF.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current three digit number to the desired number selected from Chart 4. See **Figure 78**.

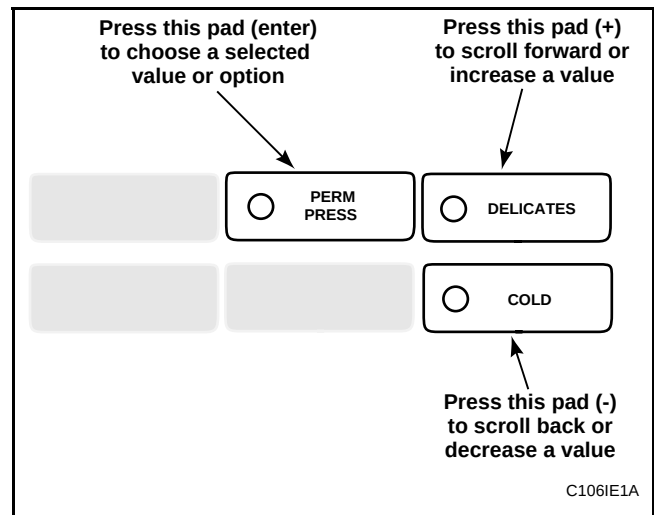


Figure 78

6. Press the PERM PRESS (enter) keypad when the correct three digit number appears in the VFD. The next option, “Ern”, will appear in the VFD.

NOTE: To program “Ern” (Extra Rinse), see **option 26**. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

How to Read Chart 4

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

The chart range begins at 0 and ends at 255. Numbers entered between 0-127 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 advance to Final Spin and will then default. The minimum power failure time is five minutes. The maximum power fail reset time is 127 minutes.

Chart 4: "rPF

NUMBER TO ENTER IN STEP 6	POWER FAIL RESET TIME
000 - 127	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

26. Extra Rinse “Ern”

This option allows the user to have an extra rinse during the wash cycle.

How to Program Extra Rinse

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD, **Figure 79**.

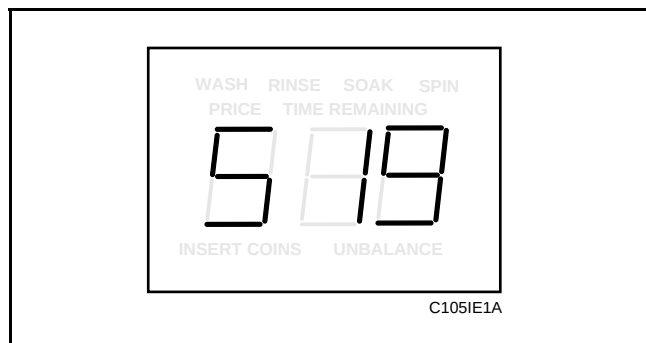


Figure 79

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “Ern” appears in the VFD. See **Figure 80**.

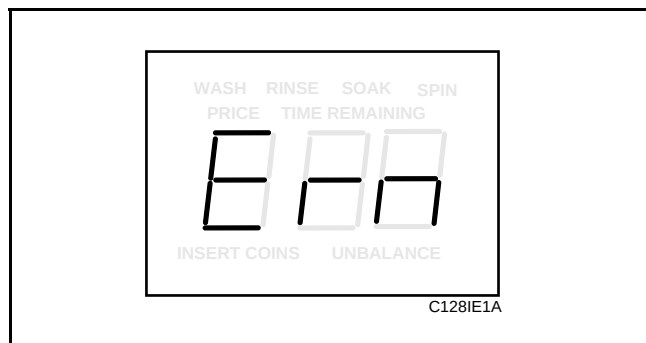


Figure 80

4. When “Ern” appears in the VFD, press the PERM PRESS pad. The current Extra Rinse selection number will appear in the VFD.

NOTE: If the VFD displays “000”, the Extra Rinse option is OFF. If the VFD displays “128”, the Extra Rinse option is ON.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current three digit number to “000” or “128.” See **Figure 81**.

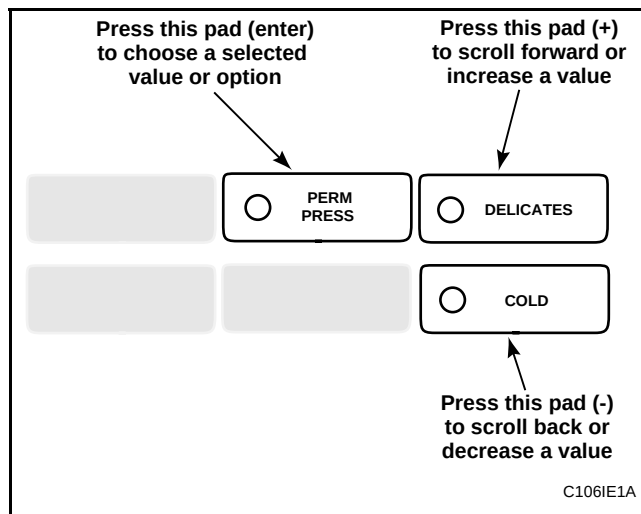


Figure 81

6. Press the PERM PRESS (enter) keypad when the correct number appears in the VFD. The next option, “rrn”, will appear in the VFD.

NOTE: To program “rrn” (Warm Rinse), see **option 27**. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

27. Warm Rinse “rrn”

This option allows the user to have a warm rinse during the HOT or WARM wash cycles. The default is set for a cold rinse with all cycles and temperatures.

How to Program Warm Rinse

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 82**.

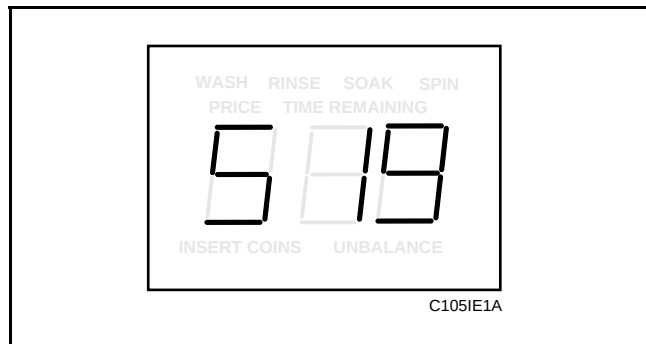


Figure 82

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “rrn” appears in the VFD. See **Figure 83**.

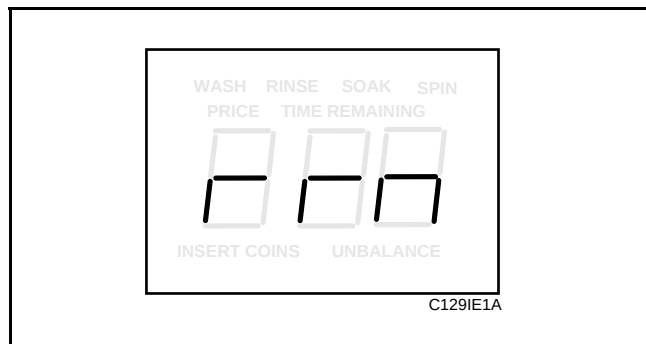


Figure 83

4. When “rrn” appears in the VFD, press the PERM PRESS pad. The current Warm Rinse selection number will appear in the VFD.

NOTE: If the VFD displays “000”, the Warm Rinse option is OFF. If the VFD displays “128”, the Warm Rinse option is ON.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current three digit to “000” or “128”. See **Figure 84**.

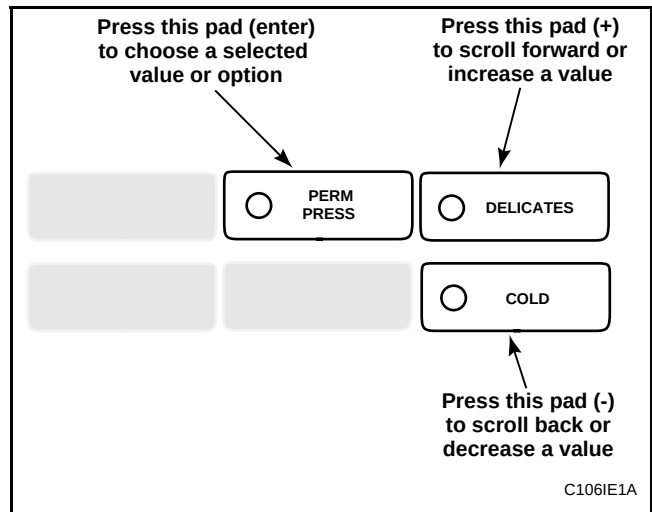


Figure 84

6. Press the PERM PRESS (enter) keypad when the correct number appears in the VFD. The next option, “CFg”, will appear in the VFD.

NOTE: To program “CFg” (Control Configuration), see **option 28**. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

28. Control Configuration “CFg”

This option allows the user to turn ON or turn OFF preprogrammed capabilities within the Electronic Control.

How to Program the Control Configuration

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 85**.

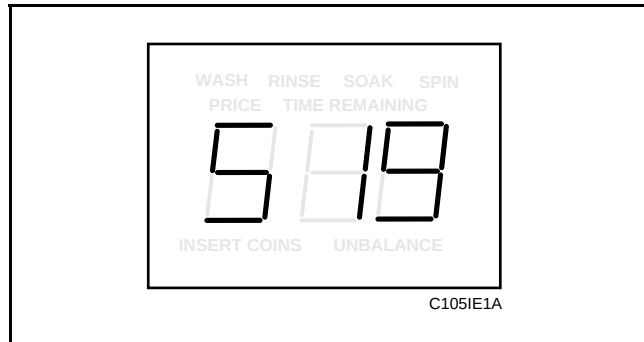


Figure 85

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “CFg” appears in the VFD. See **Figure 86**.

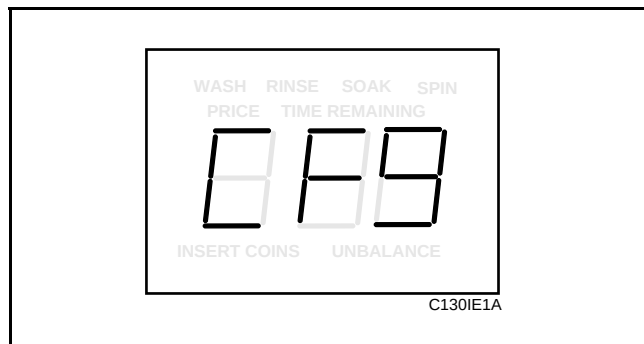


Figure 86

4. When “CFg” appears in the VFD, press the PERM PRESS pad. A three digit number will appear in the VFD.

NOTE: The number appearing in the VFD is the current number that was previously selected from Chart 5. **DO NOT** select a number that is not listed in Chart 5.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the current three digit number to the desired three digit number selected from Chart 5. See **Figure 87**.

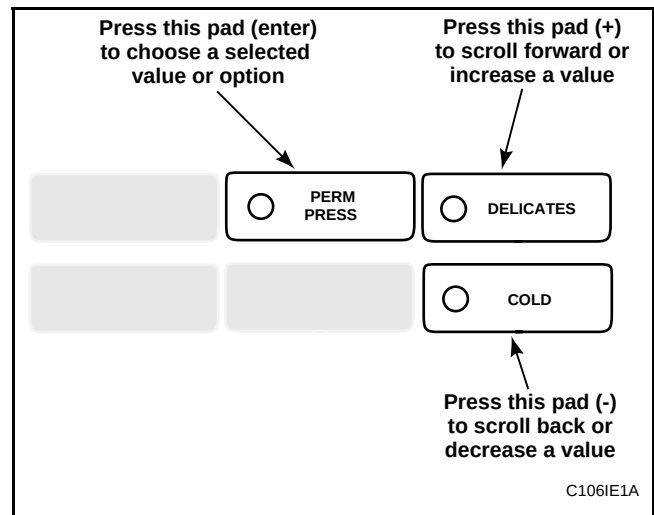


Figure 87

6. Press the PERM PRESS (enter) keypad when the correct number appears in the VFD. The next option, “Cln”, will appear in the VFD.

NOTE: To program “Cln” (Set Real Time Clock Minutes), see **option 29**. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

Configuration Programming

Use the chart on the following page (Chart 5) to turn on or turn off the preprogrammed daylight savings option, wash temperature, infra-red access option, decimal point option and the automatic collect option in the Electronic Control.

To change any or all of these configuration options, review the following descriptions carefully and choose the appropriate configuration value from Chart 5. Enter the appropriate value in step 6 on the previous page.

Daylight Savings	This option automatically sets the clock in the Electronic Control to account for the time change during Daylight Savings. OFF= Turns off the automatic daylight savings option programmed in the Electronic Control. ON= Turns on the automatic daylight savings option programmed in the Electronic Control.
Wash Temperature	This option determines if the temperature LEDs indicate the selected wash temperature during the entire cycle or indicates fill temperature during each rinse. If this option is on, the LEDs will only turn on during all fill/agitate steps to indicate the temperature of water used during that fill. During all other steps the LEDs will turn off. OFF= Selected wash temperature remains on for entire cycle. ON= LEDs indicate actual water temperature during every fill step. LEDs will be off during distribute and spin steps.
Infra-red Access	This option determines if a Micro-Wand can access or program the Electronic Control. OFF= Turns off the infra-red access by the Micro-Wand. ON= Turns on the infra-red access by the Micro-Wand.
Decimal Point	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). OFF= Turns off the decimal point from appearing in the VFD. ON= Turns on the decimal point to appear in the VFD.
Heater Enable	If the washer is equipped with an optional heater, this option will turn on the heater cycle. OFF= Turns off the heater cycle. ON= Turns on the heater cycle.

Chart 5: “CFg”

Config Value	Daylight Savings	Wash Temp	IR Access	Decimal Point	Heater Enable
38	OFF	OFF	OFF	OFF	OFF
39	OFF	OFF	OFF	OFF	ON
46	OFF	OFF	OFF	ON	OFF
47	OFF	OFF	OFF	ON	ON
54	OFF	OFF	ON	OFF	OFF
55	OFF	OFF	ON	OFF	ON
62	OFF	OFF	ON	ON	OFF
63	OFF	OFF	ON	ON	ON
102	OFF	ON	OFF	OFF	OFF
103	OFF	ON	OFF	OFF	ON
110	OFF	ON	OFF	ON	OFF
111	OFF	ON	OFF	ON	ON
118	OFF	ON	ON	OFF	OFF
119	OFF	ON	ON	OFF	ON
126	OFF	ON	ON	ON	OFF
127	OFF	ON	ON	ON	ON
166	ON	OFF	OFF	OFF	OFF
167	ON	OFF	OFF	OFF	ON
174	ON	OFF	OFF	ON	OFF
175	ON	OFF	OFF	ON	ON
182	ON	OFF	ON	OFF	OFF
183	ON	OFF	ON	OFF	ON
190	ON	OFF	ON	ON	OFF
191	ON	OFF	ON	ON	ON
230	ON	ON	OFF	OFF	OFF
231	ON	ON	OFF	OFF	ON
238	ON	ON	OFF	ON	OFF
239	ON	ON	OFF	ON	ON
246	ON	ON	ON	OFF	OFF
247	ON	ON	ON	OFF	ON
254	ON	ON	ON	ON	OFF
255	ON	ON	ON	ON	ON

29. Set Real Time Clock Minutes “CIn”

This option allows the user to set the Electronic Control’s internal clock to the correct time in minutes.

How to Program the Clock Minutes

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 88**.

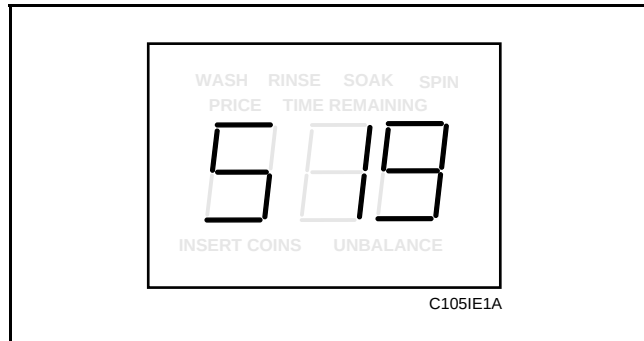


Figure 88

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “CIn” appears in the VFD. See **Figure 89**.

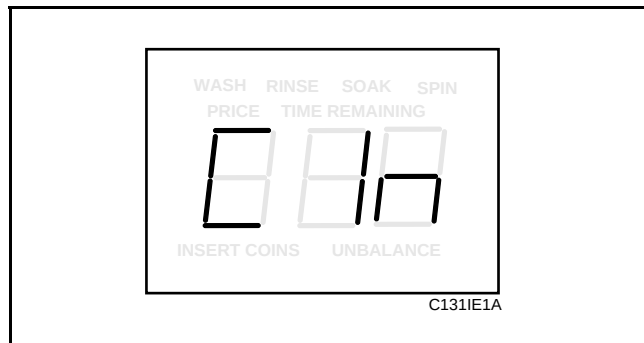


Figure 89

4. When “CIn” appears in the VFD, press the PERM PRESS pad. The current time in minutes will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the minutes to the correct time. See **Figure 90**.

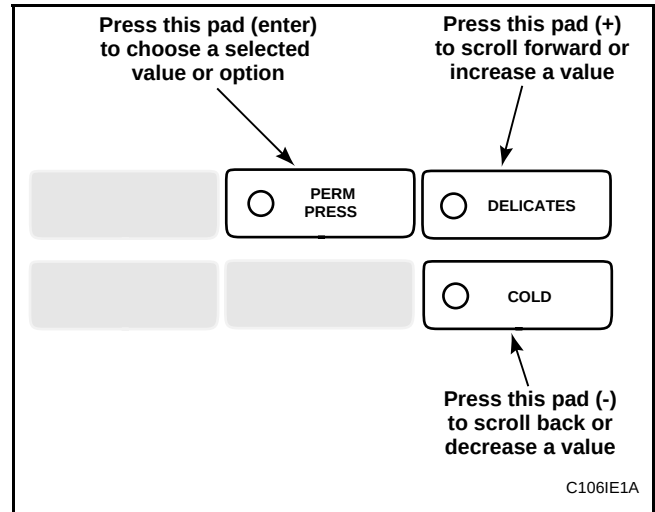


Figure 90

6. Press the PERM PRESS (enter) keypad when the correct time in minutes appears in the VFD. The next option, “CHr”, will appear in the VFD.

NOTE: To program “CHr” (Set Real Time Clock Hours), see option 30. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

30. Set Real Time Clock Hours “CHr”

This option allows the user to set the Electronic Control’s internal clock to the correct time in hours.

How to Program the Clock Hours

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 91**.

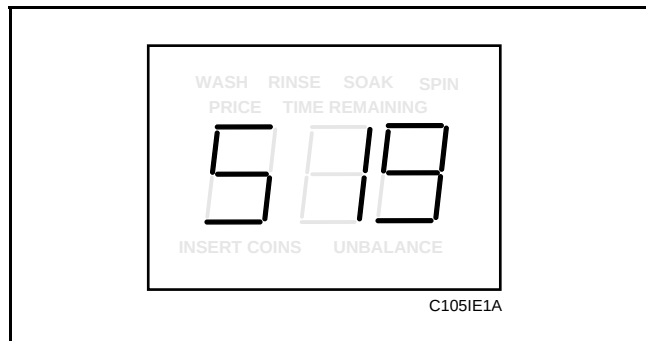


Figure 91

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “CHr” appears in the VFD. See **Figure 92**.

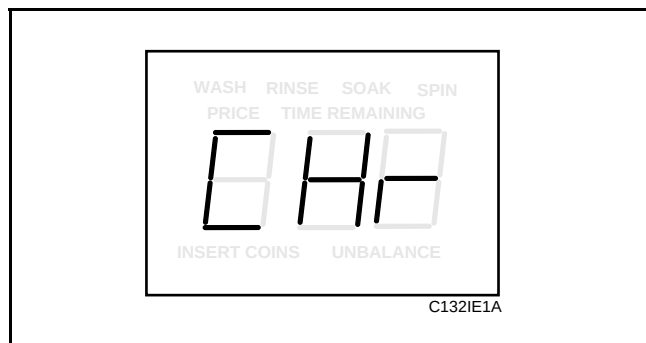


Figure 92

4. When “CHr” appears in the VFD, press the PERM PRESS pad. The current time in hours will appear in the VFD.

NOTE: The hours will display in military time.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the hours to the correct time. See **Figure 93**.

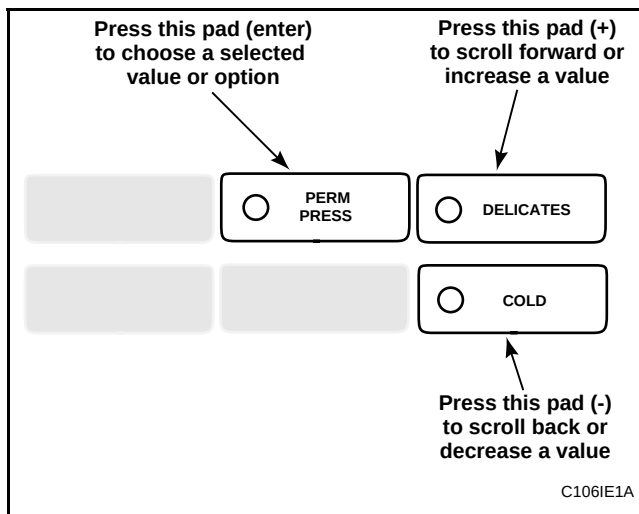


Figure 93

6. Press the PERM PRESS (enter) keypad when the correct time in hours appears in the VFD. The next option, “CdA”, will appear in the VFD.

NOTE: To program “CdA” (Set Real Time Clock Days), see option 31. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

31. Set Real Time Clock Days “CdA”

This option allows the user to set the Electronic Control’s internal clock to the correct day of the week.

How to Program the Clock Days

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 94**.

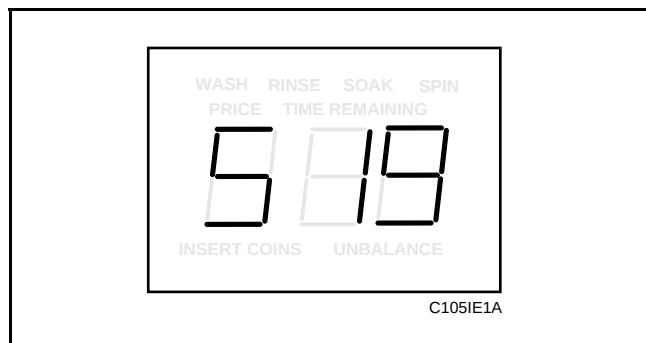


Figure 94

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “CdA” appears in the VFD. See **Figure 95**.

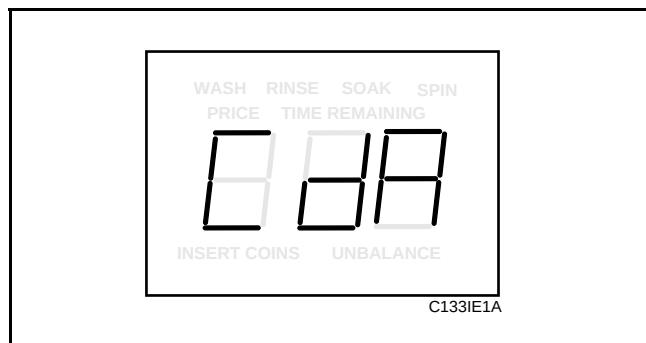


Figure 95

4. When “CdA” appears in the VFD, press the PERM PRESS pad. The current day of the week will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the day until correct. See **Figure 96**.

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

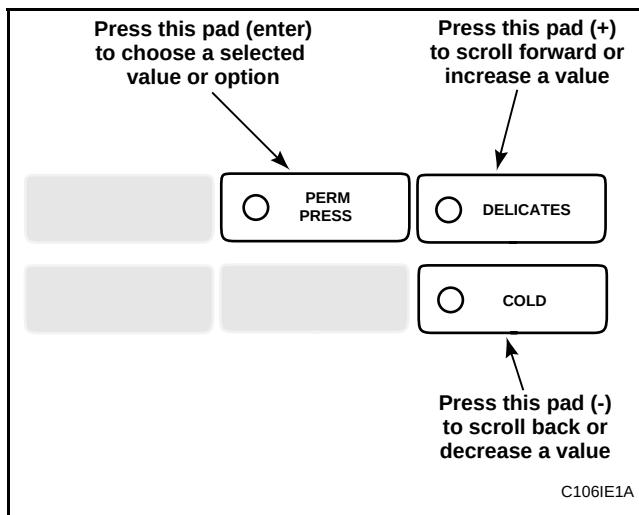


Figure 96

6. Press the PERM PRESS (enter) keypad when the correct day appears in the VFD. The next option, “CdE”, will appear in the VFD.

NOTE: To program “CdE” (Set Real Time Clock Date), see option 32. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

32. Set Real Time Clock Date “CdE”

This option allows the user to set the Electronic Control’s internal clock to the correct day of the month.

How to Program the Clock Date

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 97**.

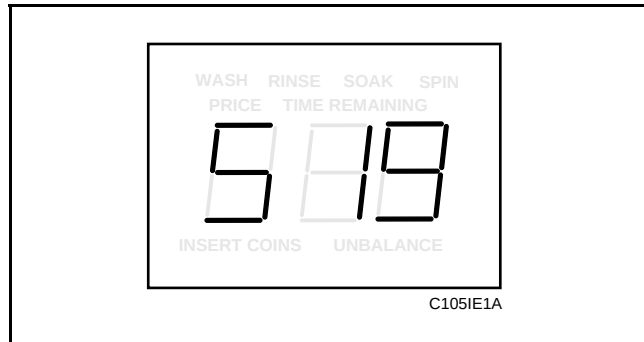


Figure 97

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “CdE” appears in the VFD. See **Figure 98**.

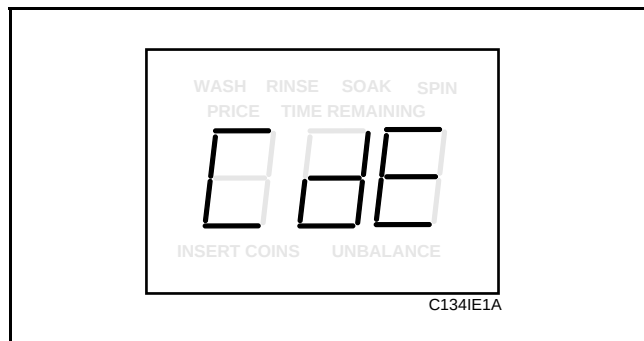


Figure 98

4. When “CdE” appears in the VFD, press the PERM PRESS pad. The current day of the month will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the day of the month until correct. See **Figure 99**.

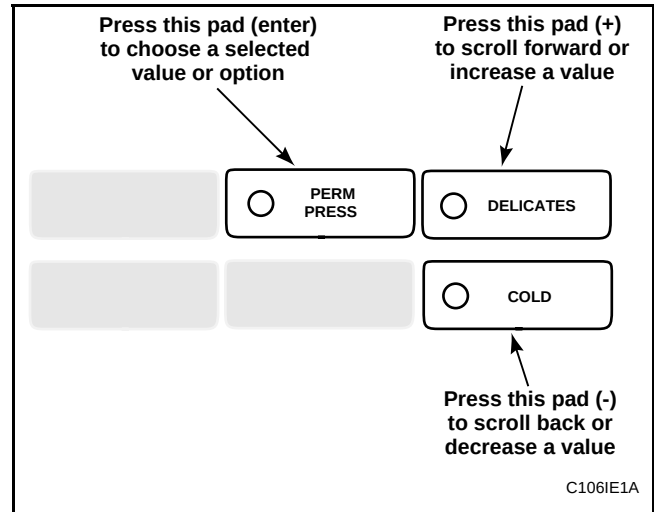


Figure 99

6. Press the PERM PRESS (enter) keypad when the correct day of the month appears in the VFD. The next option, “COn”, will appear in the VFD.

NOTE: To program “COn” (Set Real Time Clock Month), see *option 33*. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

33. Set Real Time Clock Month “COn”

This option allows the user to set the Electronic Control’s internal clock to the correct month.

How to Program the Clock Month

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 100**.

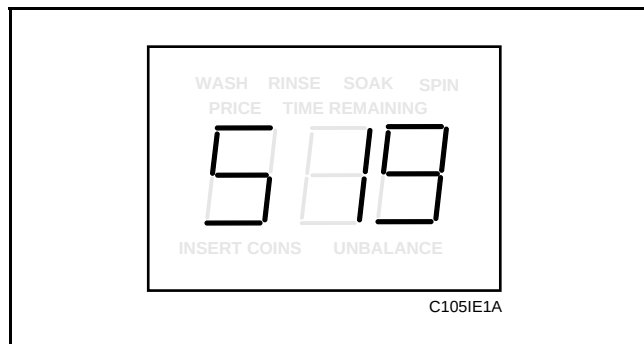


Figure 100

3. Press the DELICATES (+) pad or the COLD (–) pad to scroll through the programmable options until “COn” appears in the VFD. See **Figure 101**.

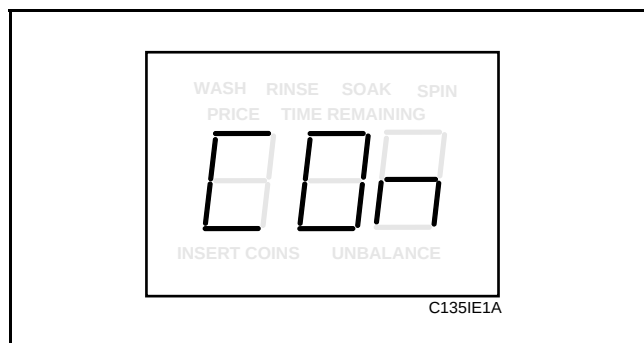


Figure 101

4. When “COn” appears in the VFD, press the PERM PRESS pad. The current month will appear in the VFD.

5. Press the DELICATES (+) or the COLD (–) keypad to increase or decrease the month until correct. See **Figure 102**.

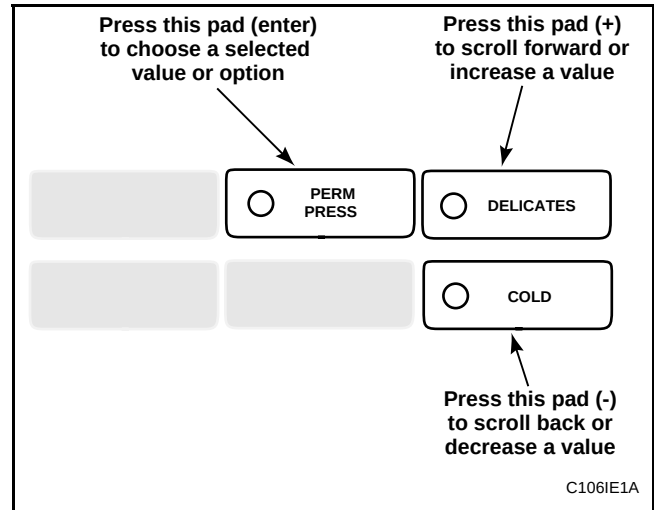


Figure 102

6. Press the PERM PRESS (enter) keypad when the correct month appears in the VFD. The next option, “CYr”, will appear in the VFD.

NOTE: To program “CYr” (Set Real Time Clock Year), see option 34. To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

34. Set Real Time Clock Year “CYr”

This option allows the user to set the Electronic Control’s internal clock to the correct year.

How to Program the Clock Year

1. Control must be in Special Mode. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. Programmable option number one, “Slg”, will appear in the VFD. See **Figure 103**.

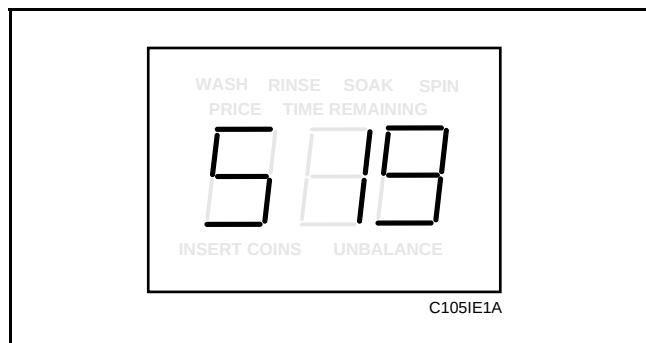


Figure 103

3. Press the DELICATES (+) pad or the COLD (-) pad to scroll through the programmable options until “CYr” appears in the VFD. See **Figure 104**.

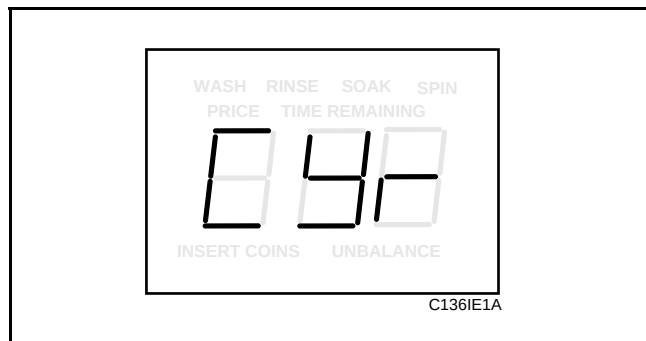


Figure 104

4. When “CYr” appears in the VFD, press the PERM PRESS pad. The current year will appear in the VFD.

5. Press the DELICATES (+) or the COLD (-) keypad to increase or decrease the year until correct. See **Figure 105**.

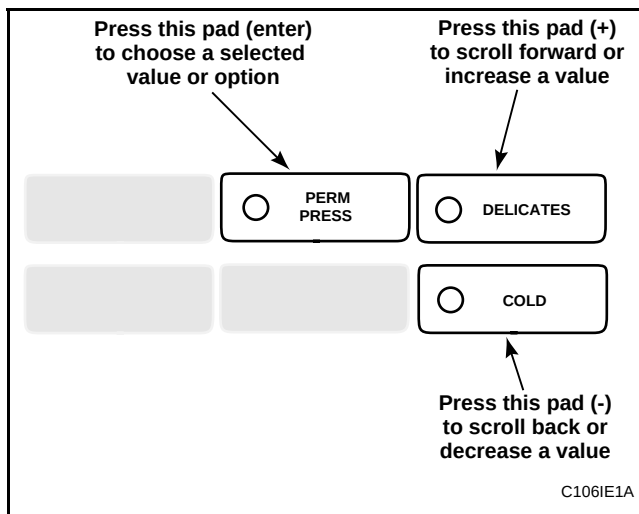


Figure 105

6. Press the PERM PRESS (enter) keypad when the correct year appears in the VFD. “CYr” will appear in the VFD.

NOTE: To program other options, refer to the appropriate section.

How to Exit Programming Feature

1. Be sure service door has been opened and closed. Refer to **Section VI**.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the PERM PRESS keypad with one hand, press the COLD keypad with the other hand. The control will revert back to the default mode. See **Figure 2**.

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal black lines across the entire width of the page, typical of notebook or composition paper. There are no margins, text, or other markings present.

Section IX

Collecting Audit Information

This feature allows the owner to retrieve audit information stored in the washer 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 “Special Mode” to start. Refer to **Section VII**.
2. While pressing and holding the NORMAL keypad with one hand, press the DELICATES keypad with the other hand.
3. The VFD will change from “SPC” to “CyC.” See **Figure 106**. “CyC” is the first Audit Option.

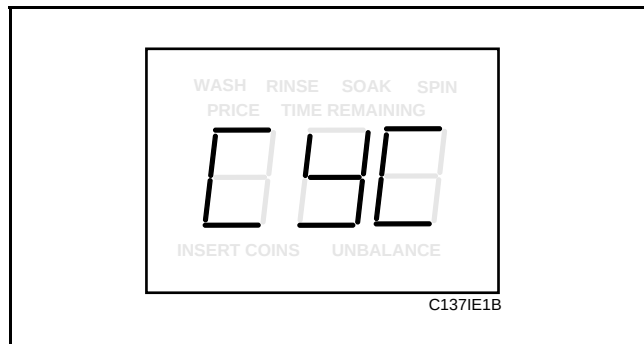


Figure 106

If the procedure did not work, the control will return to the default mode. See **Figure 2**.

How to Read Audit Data

1. Use the DELICATES (+) or COLD (–) keypads to scroll through various options until the desired option is displayed in the VFD. Refer to the Audit Options List, Chart 6, for an explanation of the

audit options available. See **Figure 107**.

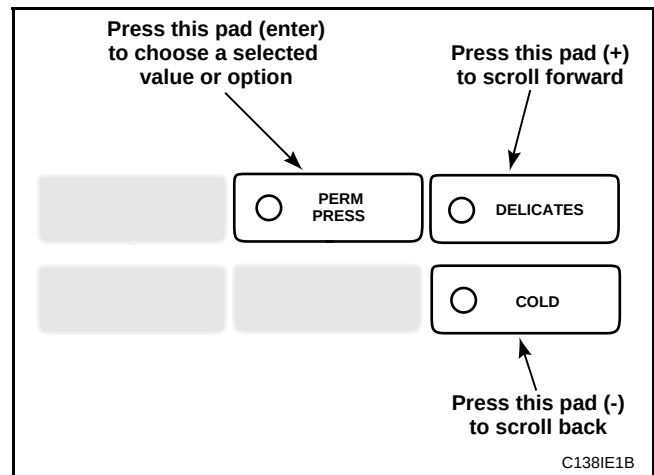


Figure 107

Chart 6: Audit Options List

#	VFD Display	Description
1	“CyC”	Total # of machine cycles
2	“CnS”	Total # of coins
3	“HCC”	Total # of HOT cycles
4	“rCC”	Total # of WARM cycles
5	“CCC”	Total # of COLD cycles
6	“ACH”	Total # of Special Vend A HOT cycles
7	“ACr”	Total # of Special Vend A WARM cycles
8	“ACC”	Total # of Special Vend A COLD cycles
9	“COP”	Total # of coin vaule openings
10	“dOP”	Total # of service door openings
11	“PFL”	Total # of power failures
12	“dnL”	Total # of downloads

2. Once the desired option appears in the VFD, press the PERM PRESS (enter) keypad **once** to start the audit count. At this point, the display will show the first three-digit segment of the audit value. Press the PERM PRESS pad additional times to view the entire number.

NOTE: The VFD can display up to 3 digits at one time. Audit counts higher than 3 digits are separated into 3-number segments. Each time the PERM PRESS (enter) pad is pressed in step 2, the VFD will show the next three-digit segment in the audit value.

For Example: In the Total Number of Coins option with "CnS" displayed in the VFD, the audit has counted 10,009 coins. Pressing the PERM PRESS pad one time will show (000),010,009 - which means no millions. Pressing PERM PRESS a second time will display 000,(010),009- meaning ten thousand. Pressing PERM PRESS a third time will display 000,010,(009) - meaning nine. The total = 000,010,009 or 10,009.

3. Press the PERM PRESS (enter) pad 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. Make sure service door is open.
2. Be sure the control shows a programmable option, not a value.
3. While pressing and holding the NORMAL keypad with one hand, press the DELICATES keypad with the other hand. The control will return to the default mode. See **Figure 2**.

Section X

Testing Machine and Electronic Control Functions

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

- Coin Vault Opening Test
- Service Door Opening Test
- Coin Drop Input Test
- Door Switch Test
- Door Lock Test
- Show Fill Test

How to Enter Testing Feature

1. Control must be in “Special Mode”. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the NORMAL keypad with the other hand.
3. The VFD will change from “SPC” to “S:XX” where “XX” indicates the software revision number.

How to Start Tests

IMPORTANT: To start a diagnostic test, the control *MUST BE* in the test feature mode (refer to steps 1-3), and the VFD must display “S:XX” where “XX” indicates the software revision number.

To start a diagnostic test, refer to the quick reference chart below, Chart 7. For detailed information on each test, read the appropriate description.

How to Exit Testing Feature

IMPORTANT: Use the following steps to exit when the control displays “S:XX”, where “XX” indicates the software revision number. **DO NOT** use these steps to exit from each individual test.

- Open the door
or
- While pressing and holding the PERM PRESS keypad with one hand, press the NORMAL keypad with the other hand. The display will return to the default mode. See **Figure 2**.

If no keys are pressed within 4.25 minutes when in the testing mode, the display will return to the default mode. See **Figure 2**.

Chart 7: Diagnostic (Testing) Mode – Quick Reference Chart

Diagnostic Mode	Push Pad to Start	VFD Display
Coin Vault Opening Test	NORMAL	“U:OO”
Service Door Opening Test	HOT	“S:OO”
Coin Drop Input Test	DELICATES	“C:OO”
Door Switch Test	PERM PRESS, DELICATE	“d:OP” or “d:CL”
Door Lock Test	PERM PRESS, COLD	“d:LO” or “d:UL”
Show Fill Test	PERM PRESS, WARM	Average Fill Time Displayed

Diagnostic Test Descriptions

Coin Vault Opening 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 NORMAL keypad. The VFD display will show “U:00”. The “00” will show the number of coin vault openings.

The vault 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 the initial opening of the test.

To exit the Coin Vault Opening Test, open the washer door or press the NORMAL keypad. The control will return to the default mode. See **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 HOT keypad. The VFD display will show “S:00”. The “00” will show the number of service door openings.

The service door 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 and save the date/time for the initial opening of the test.

To exit the Service Door Opening Test, open the washer door or press the HOT keypad while the service door is open. The control will return to the default mode. See **Figure 2**.

Coin Drop Input Test

This option tests the coin drop. 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 DELICATES keypad. The VFD display will show “C:00”. The “00” will show the number of coins entered.

To exit the Coin Drop Input Test, open the washer door or press the DELICATES keypad. The control will return to the default mode. See **Figure 2**.

Show Fill Test

This test will display the average fill time. This average will be calculated by taking the average of the three (3) last fill times plus the most recent fill time.

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 and hold the PERM PRESS keypad with one hand, then press the WARM keypad with the other hand. The VFD will show “F:XX.” The “XX” will be the average fill time for that machine.

To exit the Show Fill Test, open the washer door or press and hold the PERM PRESS keypad with one hand, then press the WARM keypad with the other hand. The control will return to the default mode. See **Figure 2**.

Door Switch Test

This test will display whether the washer door is open or closed.

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 PERM PRESS keypad with one hand, then press the DELICATES keypad with the other hand. If the door is open, the VFD will display “d:OP.” If the door is closed, the VFD will display “d:CL.”

To exit the test, press the PERM PRESS keypad with one hand, then press the DELICATES keypad with the other hand. The control will return to the default mode. See **Figure 2**.

Door Lock Test

This test will display whether the door is locked or unlocked.

To start test, control must be in the Testing Mode. Refer to **“How to Start Tests”** at the beginning of this section.

To enter, close the door, press the PERM PRESS keypad with one hand, and the COLD keypad with the other hand. The control will lock the door.

If the door is locked, the VFD will display “d:LO.” If the door is unlocked, the VFD will display “d:UL.” After the door is locked, the control will unlock the door and wait until “d:UL” is displayed. The door will take approximately one (1) minute to unlock. This sequence is repeated every time the COLD keypad is pressed.

To exit the test, open the door, or press the PERM PRESS keypad with one hand, and then press the COLD keypad with the other hand. The control will then return to the default mode. See **Figure 2**.

Section XI

Sales Floor Feature

The Sales Floor Feature is used on a sales floor to allow the owner to turn on the entire VFD display including all status words, LED's and the three digits.

How to Enter Sales Floor Feature

1. Control must be in "Special Mode" to start. Refer to **Section VII**.
2. While pressing and holding the PERM PRESS keypad with one hand, press the HOT keypad with the other hand.

The display will light up.

How to Exit Sales Floor Feature

1. Be sure service door is open.
2. While pressing and holding the PERM PRESS keypad with one hand, press the HOT keypad with the other hand.

The display will return to the default mode. See **Figure 2**.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section XII

Rapid Advance Feature

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

How to Enter Rapid Advance Feature

1. Control may be in an active cycle or in the default mode to use the Rapid Advance feature.

NOTE: If in default mode, washer door must be closed to start Rapid Advance cycle.

2. Open the service door. Refer to **Section VI**. While pressing and holding the NORMAL keypad with one hand, press the WARM keypad with the other hand. The cycle will start in the wash fill/agitate step.

While in the Rapid Advance Mode, pressing the COLD temperature pad will advance the washer to the next cycle step. The cycle indicator lights will tell which cycle the washer is in.

For example: If the washer is in the first fill/agitate cycle, pressing the COLD keypad will advance the washer into the *WASH PAUSE* cycle.

Continue pressing the COLD keypad until the cycle is completed.

How to Exit Rapid Advance Feature

1. Advance through the cycles until reaching the default mode. See **Figure 2**.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section XIII

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 default mode.

How to Clear Vend

1. Open the service door. Refer to *Section VI*.
2. While pressing and holding the NORMAL keypad with one hand, press the HOT keypad with the other hand. The control should reset to the default mode. See *Figure 2*.

Notes

[illegible]

Section XIV

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 30 seconds, the cycle will resume without requiring the user to press the cycle pad to restart.

If the power failure lasted longer than 30 seconds, the Power Fail Reset option is turned ON, and the duration of the power failure is less than or equal to the time programmed in the Power Fail Reset option, or the Power Fail Reset option is turned off, the previously

selected cycle pad will flash until it is pressed and the cycle will restart from the point it left off.

If the power failure lasted longer than 30 seconds, lasted longer than the time programmed in the Power Fail Reset option, and the Power Fail Reset option is turned ON, the control will flash the DELICATES pad one (1) second on and one (1) second off. When the pad is pressed, the spin out cycle will begin.

NOTE: If the drum is full of water, the washer will enter a three (3) minute low spin. When the water is removed from the washer drum, the washer will go into a slow tumble until the door unlocks.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section XV

Infrared Communications

The Infrared Communications feature allows the washer control to communicate with the Micro-Wand IIIE. The washer 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.

How to Begin Communications with Micro-Wand IIIE

The control will go blank and the VFD will display “-C-” until the communication is complete. The LED’s will flash for several seconds and the display will return to the previous mode. If an error occurs that terminates communication, the VFD will display “E:XX (“XX” represents the error code).

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section XVI

Default Washer Settings

Default Settings

Cycle	PERM PRESS
Wash Water Temperature	WARM
Rinse Water Temperature	COLD
Special Vends	OFF. All items zero.
Signals:	
Keypress	ON (at low volume)
End of Cycle	OFF
Coin Drop	OFF
Coin Value	.25
Power Fail Reset	OFF/5 minutes
Control Configuration:	
Daylight Savings	ON
Wash Temp Indicator	ON
Infra-red Access	ON
Decimal Point	ON
Heater Enable	OFF

Default Cycle

The cycle listed is the default cycle programmed in at the factory. This cycle can be made longer or shorter by setting the fills and rinses at different variables. Refer to the Programming section to change these times.

<u>Cycle</u>	<u>Default</u>
Fill/Agitate	1:00
Agitate	7:00
Pause/Pump	2:00
Fill/Agitate	1:00
Agitate	2:00
Tumble/Pump	1:00
Spin/Pump	2:00
Extra Fill/Agitate	0:00
Extra Agitate	0:00
Extra Tumble/Pump	0:00
Extra Spin/Pump	0:00
Fill/Agitate	1:00
Agitate	2:00
Tumble/Pump	1:00
Spin/Pump	3:00
Spin/Pump	2:00
Final Spin	7:00
Breakaway	1:00