

# M4-S Computer Operation Manual





Frymaster, a member of the Commercial Food Equipment Service Association, recommends using CFESA Certified Technicians.

\*8195899\*

24-Hour Service Hotline 1-800-551-8633

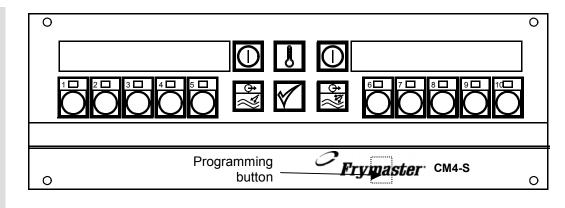
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# Diagnostic Hints

Look into this gray box throughout the manual for overviews and hints on the operation of the CM4-S cooking computer.



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# **CM4-S Cooking Computer — Overview**

The S in the CM4-S computer stands for segment, a feature that allows a cooking cycle to be broken into a number of parts, each with its own cooking temperature.

The graphic at right details an example of this process. Explicit, step-by-step instructions are provided in subsequent chapters.

# **Programming Overview**

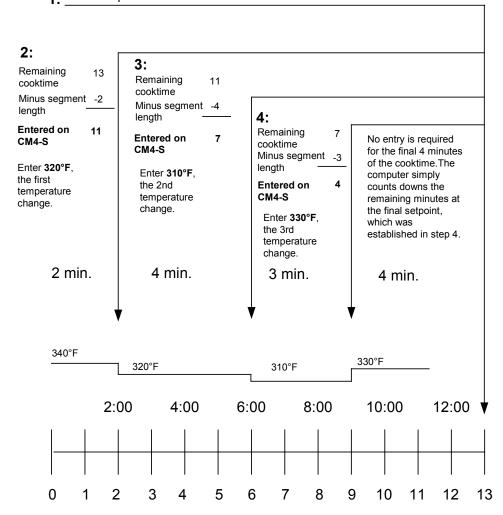
An example of a 13-minute cook cycle with four cooking temperatures is detailed in the graphic below.

The cooktime and points at which the temperature will change are entered in four steps in this example. Cooktimes are arrived at by subtracting the desired segment time from the remaining cooktime and entering that number. (See explanation in the graphic.)

- Step 1 sets the total cooktime and the initial setpoint.
- ♦ Step 2 sets the duration of the first cooking segment, 2 minutes, and the setpoint of the first temperature change.
- ♦ Step 3 sets the duration of the second cooking segment, 4 minutes, and the setpoint of the second temperature change.
- Step 4 sets the duration of the third cooking segment, 3 minutes, and the setpoint of the third temperature change.

The four remaining minutes in the cooktime elapse at the final temperature. No entry is required to use the final minutes.

Enter 13:00, the combined time of all cook cycles, and 340°F, initial setpoint.



# **CM4-S Cooking Computer — Overview**

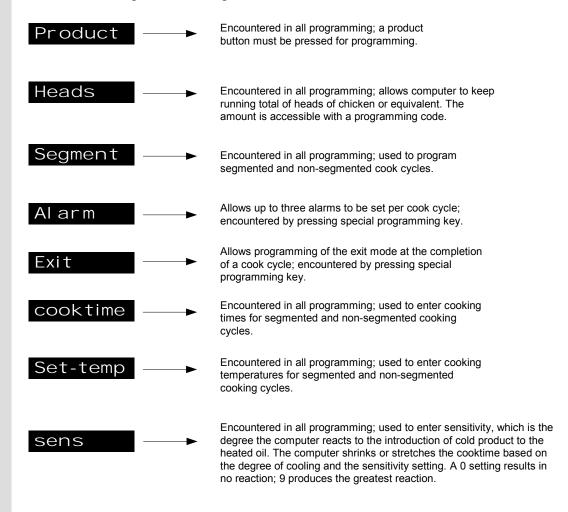
The CM4-S has a number of features and it is not essential to use all of them in your cooking operation. Programming for segmented cooking and staggered alarms, which are not essential to use together, are extensive processes.

For that reason, programming for filtering prompts and alarms are presented in separate chapters.

The CM4-S can cook in segmented and non-segmented cook cycles with or without automatic filter prompts. It is also programmable to exit a cook cycle in one of three modes: return to setpoint, assume an idle temperature, well below setpoint, or prompt filtering at a prescribed cook cycle count for a specific product button

The CM4-S is also capable of monitoring cook cycles initiated by all the product buttons and call for filtering when the cumulative amount reaches a number set by the operator.

Programming for filtering and exit-mode options are not essential to basic cooking programming. For that reason, filtering and exit mode instructions are provided in separate sections of this manual.



# **CMS-4 Cooking Computer**

		Computer Setup			
1.	Press O.				
	Display reads	0			
	OFF.				
2.	Press			10	
	programming				
	button in				
	Frymaster		2		
2	logo.	0	Prymaster CM4-S		
3.	Code				
	appears in left	ny io blank	Programming but	ton	
	display; right displa	ty is blank.			
4.	Use product keys to				
5.	= -	OK Tone; right shows 10			
6.	•	ring a new frequency, 100-200	00Hz, with product		
	buttons.				
7.	Press either O	N/OFF button to sample sound	1.		
0		-			
8.	Press to save s				
9. 10	- •	Caution; right 500HZ.			
	10. Follow steps 6-7 to change and sample sound.				
11.	11. Press to save sound.				
	- •	Warning; <b>right</b> 350HZ.	•		
13.	Follow steps 6-7 to	change and sample sound.			
14.	Press to save s	ound.			
		Fry-Type; right shows F	ull Pot,		
	Splitpot or p				
16.		between choices. Leave Ful			
	•	er, splitpot in display for	•		
	pressure in t	he display for a pressure fryer.			
17	Press to lock i	n choice.			
		energy; right shows gas	sorelectric.		
		e between choices.			
20. With the proper energy type displayed go to step 21.					
21.	Press to lock i	n choice.			

22. MeI  $\dagger$  Ex $\dagger$  appears in left display; a temperature setting in the right.

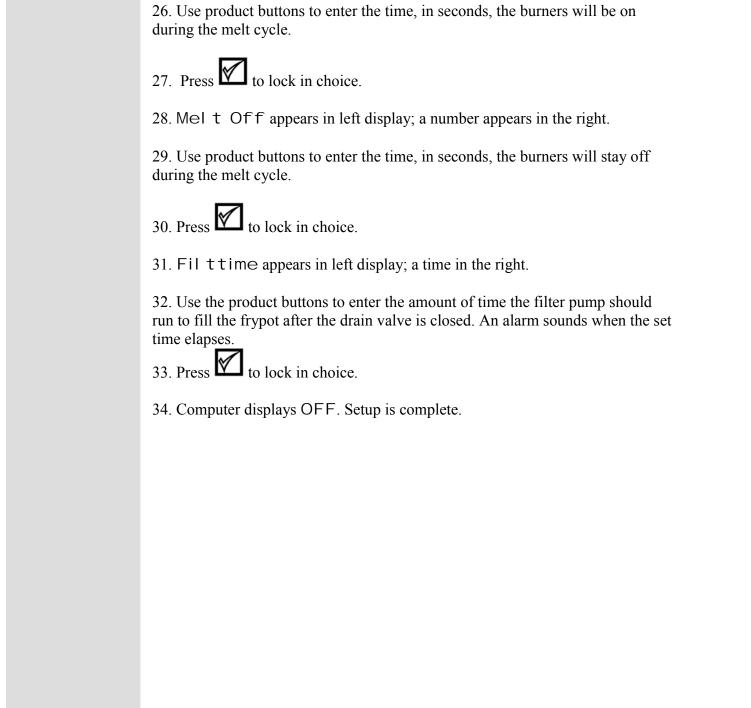
# **CMS-4 Cooking Computer**

25. Mel t On appears in left display; a number appears in the right.

heat continuously to setpoint.

24. Press to lock in choice.

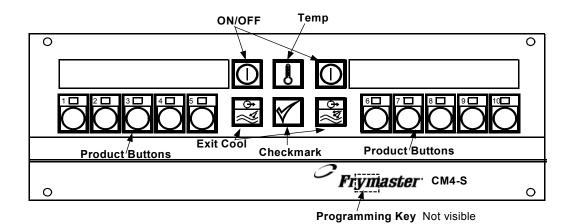
23. Use product buttons to set temperature the fryer will exit the melt cycle and



# Programming Hint

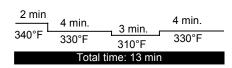
When using the global filtering feature of the CM4-S, the computer counts the amount of product cooked and calls for filtering when the count reaches a predetermined number, which is set by the user. The computer must be connected to the drain valve safety switch to provide all the features described at right.

- Entry of the amount of product to cook before calling for filtering is detailed in steps 1-8 at right.
- The amount of product assigned to a product button is entered at step 16.



# **Programming for Segmented Cooking Cycles** (Filter Mode)

- 1. Establish the total number of cook cycles before the computer prompts a filter cycle.
- 2. Press , the ON/OFF button to turn computer off.
- 3. Display shows OFF.
- 4. Press hidden programming button in Frymaster logo. (See diagram above)
- 5. Display shows CODE on left side.
- 6. Enter 1658 using numbered product keys
- 7. GBL FILT (I GBL and rGBL appear if the computer is configured for a splitpot) appears in the left display, O or a previously programmed number appears in the right.
- 8. Use the product keys to enter the number of cook cycles before the computer calls for filtering.
- 9. Press . Computer displays OFF.
- 10. Establish the total cooktime and the number and temperatures of the cook segments for your product.

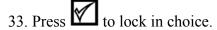


You will find drawing a diagram helpful. See graphic on page 1-1 and above. In this example cooking segments of 2 minutes at 340°F, 4 minutes at 320°F, 3 minutes at 310°F and a final cook segment of 4 minutes at 330°F are set.

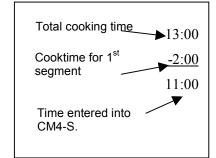
- 11. Press hidden programming button in Frymaster logo. (See diagram above)
- 12. Display shows CODE on left side.

- \* If you plan to use the cooking alarms or exit modes features, please skip to sections 5 and 6 for instruction on their programming. If not, programming can continue in the sequence at right.
- \*\* The temperature display can be toggled from Fahrenheit to Celsius in this step. See instructions on Page 7-1.

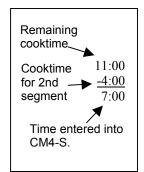
- 13. Enter 1650 using numbered product keys. Use button 10 for 0.
- 14. Product shows in left display. All product buttons blink. Right display is blank.
- 15. Press the product button you want to program. Heads appears in left display; O or a previously programmed number in the right. The LED in the chosen button remains lit. All others go off
- 16. Use the product buttons to enter the number of heads of chicken (or equivalent) to be cooked in each cycle of the product button being programmed.
- 17. Press to lock in choice.
- 18. Segment appears in left display, PROD and number of the product button being programmed appears in right.
- 19. Press product button 1 . The LED in product 1 continues to flash; the LED in the button being programmed stays on continuously (unless button 1, which is flashing, is being programmed).
- 20. Cook time appears in left display; a time programmed previously appears in right display.
- 21. Use the product buttons to enter O, which eliminates any earlier programming.
- 22. Press
- 23. Segment appears in the left display; Prod 1 in the right. No button LEDs are illuminated.
- 24. Press button 1 . The LED flashes.
- 25. Cook time appears in left display; 0 appears in right display.
- 26. Use the product buttons to enter the total cooktime.
- 27. Press
- 28. Set-Temp appears in left display; O appears in the right display.
- 29. Use product keys to enter the cooking temperature for the initial setpoint of the cooking cycle.
- 30. Press to lock in temperature.
- 31. Sens appears in the left display; O appears in the right.
- 32. Use product buttons to set sensitivity, which is the degree the computer reacts to the introduction of cold product to the heated oil. The computer can stretch or shrink the cooking time. Zero, or no sensitivity, is a common choice for bone-in chicken.



- 34. Segment appears in left display; Prod 1 in right. The LED in the product button 1 continues to flash. All others are dark.
- 35. Press product button 2 . The LED in product button 2 flashes. The LED in the button being programmed is illuminated continuously.
- 36. Determine the desired cooktime for the first cook cycle. Subtract that number from the total cooktime entered in the first step. Enter the result with the product buttons. See calculation at right and graphic in programming overview on page 1
  Cooktime for 1st segment

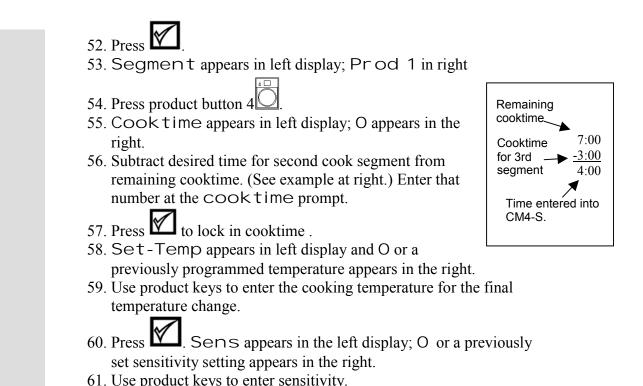


- 37. Press to lock in choice.
- 38. Set-Temp appears in left display and O or a previously programmed temperature appears in the right.
- 39. Use product keys to enter the cooking temperature for the first temperature change. See graphic on page 1-1.
- 40. Press Sens appears in the left display; O or a previously set sensitivity setting appears in the right.
- 41. Use product keys to enter sensitivity.
- 42. Press
- 43. Segment appears in left display; Prod 1 in right.
- 44. Press product button 3
- 45. Cook time appears in left display; O appears in the right.
- 46. Subtract desired time for second cook segment from remaining cooktime. (See example at right.) Enter that number at the COOK time prompt.



- 47. Press to lock in cooktime.
- 48. Set-Temp appears in left display and O or a previously programmed temperature appears in the right.
- 49. Use product keys to enter the cooking temperature for the second temperature change.
- 50. Press Sens appears in the left display; O or a previously set sensitivity setting appears in the right.
- 51. Use product keys to enter sensitivity.

62. Press



63. Segment appears in left display; Prod 1 in right. All

64. Nine minutes of the 13-minute cooktime have been programmed. No additional programming is required. The computer will take the

oil to the last setpoint, which was established in step 58 and

66. Product appears in the left display. Right display is blank. 67. Press next product button to be programmed with segmented cooking cycles. Follow steps outlined above to program.

65. Press to leave programming for this product button.

programmed buttons are illuminated.

countdown the remaining 4 minutes.

68. To lock in programming and exit, press

# **Programming** Hint

Vats cooking french fries and other non-breaded products do not need filtering as frequently as vats used to prepare chicken and other heavily breaded items.

\* If you plan to use the cooking alarms or exit modes features, please skip to sections 5 and 6 for instruction on their programming. If not, programming can continue in the sequence at right.

# **Programming for non-Segmented Cooking**

(Filtering Mode)		
1. Establish the number of cook cycles before the computer prompts a filter cycle.		
<ol> <li>Press , the ON/OFF button to turn the computer off.</li> <li>Display shows OFF.</li> </ol>		
<ul><li>4. Press hidden programming key in Frymaster logo. (See diagram).</li><li>5. Display show CODE on left side.</li></ul>		
<ul><li>6. Enter 1658 using numbered product keys</li><li>7. GBL Fil t appears in the left display; O or a previously</li></ul>		
programmed number appears in the right.		
8. Use the product keys to enter the amount of product to be cooked before the computer calls for filtering.		
9. Press . Computer displays OFF.		
<ul><li>10. Press , the ON/OFF button to turn computer off.</li><li>11. Display shows OFF.</li></ul>		
<ul><li>12. Press hidden programming button in Frymaster logo. (See diagram).</li><li>13. CODE appears on left side; right side is blank.</li></ul>		
14. Enter 1650 using numbered product keys. Use button 10 for 0.		
15. Product shows in left display. All product buttons blink. Right display is blank.		
16. Press the product button you want to program. Heads appears		
in left display; a number appears in the right. The LED in the chosen		
button remains lit. All others go off.  17. Use the product buttons to enter the amount of product to be cooked		
with the button being programmed.		
18. Press to lock in choice.		
19. *Segment appears in left display, PROD and the number of the		
button being programmed appears in the right. The LED in product		
button 1 begins to flash.*		
20. Press product button 1 . The LED in product 1 continues to flash;		

22. Use the product buttons to enter the cooking time.

previously appears in right display.

the LED in the button being programmed stays on continuously. 21. Cook time appears in left display; O or a time programmed

23. Press to lock in cooktime.
24. **Set-Temp appears in left display; O or a previously entered

temperature appears in the right display.

25. Use product keys to enter the cooking temperature for the final segment of the cooking cycle.

- 26. Press to lock in temperature.
- 27. Sens appears in the left display; O or a previously set number up to 9 appears in the right.
- 28. Use product buttons to set sensitivity, which is the degree to which the computer reacts to the introduction of cold product to the heated oil. The computer can stretch or shrink the cooking time.
- 29. Press to lock in choice.
- 30. Segment appears in left display. Product number appears in right.
- 31. Press
- 32. Product appears in left display. Right display is blank.
- 33. Choose another product button to program or press to turn off computer and lock in changes.

# **Filter Operation**

The computer must be connected to the drain valve safety switch in order to function as described at right.

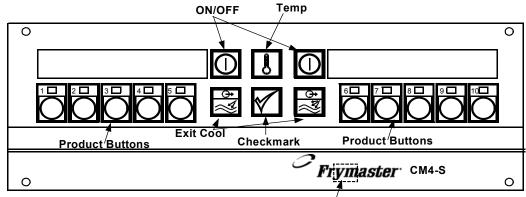
To clear a computer programmed for global filtering and not connected to the fryer's filter system:

- Press to to turn computer off.
- Press button in Frymaster logo.
- Display shows CODE.
- **Enter** 1111 with product keys. (On Church's computers, use 1111 to delay filtering, 1119 to cancel filtration. See supplemental Church's material for instructions on delaying and clearing the filter function.)
- CLR FLTR FUNCTION

flashes in display and computer displays OFF.

# **Filter Operation**

- 1. When the product count entered during the programming for global filtering is reached, the computer will display Fil ter.
- 2. Allow the cook cycle to complete.
- 3. Ensure the filter pan is properly prepared.
- 4. Open drain valve for a minimum of 30 seconds.
- 5. Display shows Drain Open.
- 6. After approximately three minutes, the computer display alternates between Drain, Open and Fill.
- 7. Close drain valve. Display shows  $\vdash \mid \bot \bot$ .
- 8. Use pump on filter system to refill fry vat.
- 9. Press . Fryer returns to setpoint.



Programming Key Not visible

# Programming for Segmented Cooking Cycles (Non-Filtering Mode)

- 1. Establish the total cooktime and the number and temperatures of the
- 2 min 4 min. 3 min. 4 min. 330°F 330°F 330°F Total time: 13 min

cook segments for your product. You will find drawing a diagram helpful. See graphic on page 1-1. In this example cooking segments of 2 minutes at 340°F, 4 minutes at 320°F, 3 minutes at 310°F and a final cook segment of 4 minutes at 330°F are set.

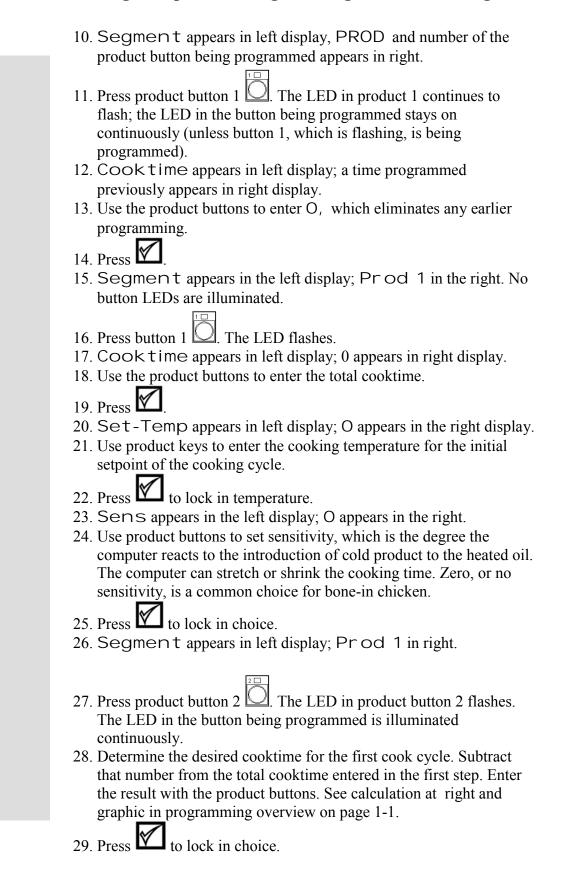
Note: Instruction based on a four segment cooking segment cooking segment cooking segment cooking segment cooking segment cooking segment segment cooking segment se

2. Press . Computer displays OFF.

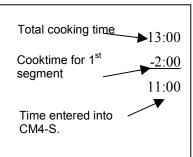
Note: Instructions are based on a foursegment cooking cycle. Computers can be programmed with up to nine cooking segments.

- 3. Press hidden programming button in Frymaster logo. (See diagram above)
- 4. Display shows CODE on left side.
- 5. Enter 1650 using numbered product keys. Use button 10 for 0.
- 6. Product shows in left display. All product buttons blink. Right display is blank.
- 7. Press the product button you want to program. Heads appears in left display; O or a previously programmed number in the right. The LED in the chosen button remains lit. All others go off.
- 8. Use the product buttons to enter the number of heads of chicken (or equivalent) to be cooked in each cycle of the product button being programmed.
- 9. Press to lock in choice.

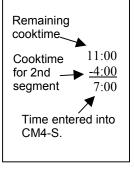
\* If you plan to use the cooking alarms or exit modes features, please skip to sections 5 and 6 for instruction on their programming. If not, programming can continue in the sequence at right.



- 30. Set-Temp appears in left display and O or a previously programmed temperature appears in the right.
- 31. Use product keys to enter the cooking temperature for the first temperature change. See graphic on page 1-1.
- 32. Press Sens appears in the left display; O or a previously set sensitivity setting appears in the right.
- 33. Use product keys to enter sensitivity.
- 34. Press
- 35. Segment appears in left display; Prod 1 in right.



- 36. Press product button 3
- 37. Cook time appears in left display; O appears in the right.
- 38. Subtract desired time for second cook segment from remaining cooktime. (See example at right.) Enter that number at the COOktime prompt.
- 39. Press to lock in cooktime.
- 40. Set-Temp appears in left display and O or a previously programmed temperature appears in the right.
- 41. Use product keys to enter the cooking temperature for the second temperature change.
- 42. Press Sens appears in the left display; O or a previously set sensitivity setting appears in the right.
- 43. Use product keys to enter sensitivity.
- 44. Press
- 45. Segment appears in left display; Prod 1 in right
- 46. Press product button 4
- 47. Cook time appears in left display; O appears in the right.
- 48. Subtract desired time for the third cook segment from remaining cooktime. (See example at right.) Enter that number at the COOK time prompt.
- 49. Press to lock in cooktime.
- 50. Set-Temp appears in left display and O or a previously programmed temperature appears in the right.
- 51. Use product keys to enter the cooking temperature for the final temperature change.



Remaining cooktime\_

Cooktime

segment

CM4-S.

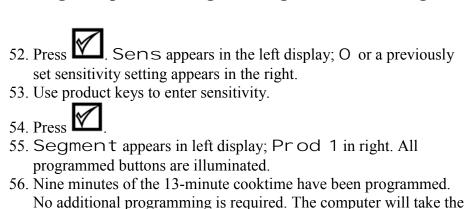
Time entered into

for 3rd

7:00

3:00

4:00



- 57. Press to leave programming for this product button.
- 58. Product appears in the left display. Right display is blank.

oil to the last setpoint, which was established in step 48 and

- 59. Press next product button to be programmed with segmented cooking cycles. Follow steps outlined above to program.
- 60. To lock in programming and exit, press .

countdown the remaining 4 minutes.

# Programming Hint

French fries and other products do not require segmented cooking cycles. Simply exit the programming sequence at the second Segment display. The time entered into the first segment will establish the complete cooking time.

- \* If you plan to use the cooking alarms or exit modes features, please skip to sections 5 and 6 for instruction on their programming. If not, programming can continue in the sequence at right.
- \*\* The temperature display can be toggled from Fahrenheit to Celsius in this step. See instructions on Page 7-1.

# Programming for non-Segmented Cooking (Non-Filtering Mode)

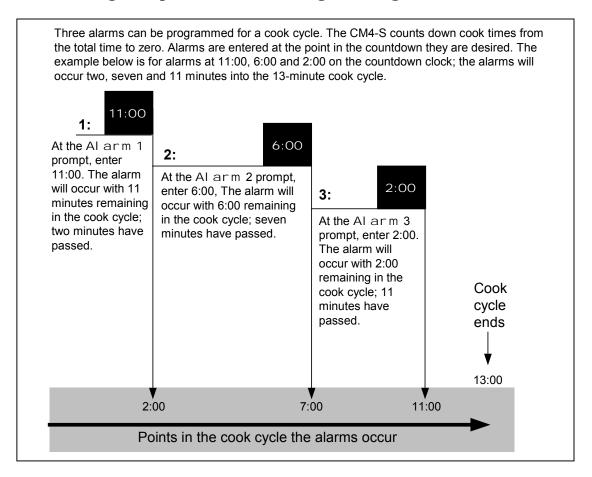
- 1. Press , the ON/OFF button to turn computer off.
- 2. Display shows OFF.
- 3. Press hidden programming button in Frymaster logo. (See diagram).
- 4. CODE appears on left side; right side is blank.
- 5. Enter 1650 using numbered product keys. Use button 10 for 0
- 6. Product shows in left display. All product buttons blink. Right display is blank.
- 7. Press the product button you want to program. Heads appears in left display; A number appears in the right. The LED in the chosen button remains lit. All others go off.
- 8. Use the product buttons to enter the number of heads of chicken or an equivalent to be assigned to this product button.
- 9. Press to lock in choice.
- 10. \*Segment appears in left display, PROD and the number of the button being programmed appears in the right. The LED in product button 1 begins to flash.
- 11. Press product button 1 . The LED in product 1 continues to flash; the LED in the button being programmed stays on continuously.
- 12. Cooktime appears in left display; O or a time programmed previously appears in right display.
- 13. Use the product buttons to enter 0, which eliminates earlier programming.
- 14. Press
- 15. Segment appears in left display, PROD and the number of the button being programmed appears in the right. No button LEDs are illuminated.
- 16. Press a product button
- 17. Cook time appears in left display; O appears in the right display.
- 18. Use product keys to enter the cooktime.
- 19. Press to lock in cooktime.
  - 61. Set-Temp appears in left display and O or a previously programmed temperature appears in the right.
- 20. Use product keys to enter the cooking temperature for the product.

21. Press .
22. Sens appears in the left display; O or a previously set number up to
9 appears in the right.
23. Use product buttons to set sensitivity, which is the degree to which
the computer reacts to the introduction of cold product to the heated
oil. The computer can stretch or shrink the cooking time.
24. Press to lock in choice.
25. Segment appears in left display. Product number appears in right.
26. Press .
27. Product appears in left display. Right display is blank.
28. Choose another product button to program or press to turn off
computer and lock in changes.

# **CM4-S Cooking Computer — Alarm Programming**

# Programming Hint

Alarms are set to remind operators to shake fry baskets or tend to the product in some other way at points during the cook cycle. The instructions at right detail setting three alarms in a 13minute cook cycle. To enter a single alarm, exit the sequence after setting the first alarm.



- 1. After reaching the first display of Segment on the computer when programing for any mode of operation, follow these steps to set audible alarms in the cook cycle.
- 2. Segment is shown in the left display; Product and its number in the right. Press hidden program button (see diagram on page 2-2).
- 3. Al arm 1 appears in left display; A or M and a time appears in the right.
- 4. Determine the point in the cooktime countdown the first alarm should occur. For example, to set an alarm two minutes into a 13-minute cook cycle, set the alarm at 11:00, the time the computer will display when two minutes have elapsed in the cook cycle. (See graphic above).
- 5. Use to toggle between A and M. With A displayed, alarms are self-canceling; with M displayed, alarms must be canceled manually. See example on next page of entering three alarm times.
- 6. With desired time and alarm-canceling mode displayed, press to proceed. Skip to step 9 to program Alarm 2. To exit alarm programming follow steps 7-8.

# **CM4-S Cooking Computer — Alarm Programming**

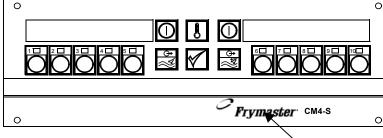
- 7. To exit alarm programming, press hidden programming button twice. Ex Cycle, which is described in section 6, will display on the computer at the first push. On the second button push the computer will revert to segment and product number.
- 8. Resume programming for segmented, non-segmented, filter or non-filter mode as described in their sections.
- 9. Determine the point in the cooktime countdown the second alarm should occur. For example, to set an alarm seven minutes into a 13-minute cook cycle, set the alarm at 6:00, the time the computer will display when seven minutes have elapsed in the cook cycle. (See graphic above).
- 10. Use to toggle between A and M. With desired time and alarm-canceling mode displayed, press to proceed to set Alarm 3.
- 11. Determine the point in the cooktime countdown the thirdt alarm should occur. For example, to set an alarm 11 minutes into a 13-minute cook cycle, set the alarm at 2:00, the time the computer will display when 11 minutes have elapsed in the cook cycle. (See graphic above).
- 12. Use to toggle between A and M.
- 13. To exit alarm programming, press hidden programming button twice. Ex Cycl e, which is described in section 6, will display on the computer at the first push. On the second button push the computer will revert to segment and product number.
- 14. Resume programming for segmented, non-segmented, filter or non-filter mode as described in their sections.

# **CM4-S Cooking Computer Exit-Mode Programming**

# **Programming** Hint

The CM4-S can be programmed to return to setpoint, cool to an idle temperature or prompt for filtering at the end of a cooking cycle.

1. After reaching the first display of Segment on the computer when programming for any mode of



operation, follow these steps to set the status the fry vat will assume upon the completion of a cooking cycle.

Programming button under logo.

- 2. Press hidden programming key twice. An Alarm prompt appears upon the first push. Programming for alarms is covered in Section
- 3. Ex Cycl e appears in the left display upon the second push; Fil ter, Set-Temp, or Set-Back appears in the right.
- 4. Press to toggle between choices: with Fil ter chosen, the fryer will prompt for filtration at the completion of the cooking cycle; with Set-Temp chosen, the fryer will return to setpoint upon the completion of the cooking cycle; with set-back chosen, the fryer will assume an idle temperature well below setpoint.
- 5. With the Set-temp or set-back displayed, press lock in choice. Skip to step 9.
- 6. With Filter displayed, press
- 7. Num Fil t shows in the left display; O or a previously programmed number appears in the right.
- 8. Use product keys to enter number cook cycles between filtering prompts for the product key being programmed. For example: if 10 is entered at the Num Fil t prompt during programming of product button 1, Filter will display on computer when product

button 1 is pressed for the 10<sup>th</sup> time. Press

- 9. Segment appears in the left display; Prod and the button number being programmed appear in the right.
- 10. Resume programming for filtering, non-filtering, segmented or nonsegmented cooking.

# **Toggle from Fahrenheit to Celsius**

# **Programming Hint**

The temperature display on the CM4-S can be changed from Fahrenheit to Celsius during the regular programming process. An abbreviated programming sequence is shown at right to address Fahrenheit-to-Celsius adjustment exclusively.

1. 2. 3.	Press , the ON/OFF button to turn computer off. Display shows OFF. Press hidden programming button in Frymaster logo. (See diagram page 2-2).
4.	Display shows CODE on left side.
5.	Enter 1650 using numbered product keys. Use button 10 for 0.
6.	Product shows in left display. All product buttons blink. Right display is blank.
	Press a product button . Heads appears in left display; O in the right. The LED in the chosen button remains lit. All others go off.
8.	Press to step to next choice.
	Segment appears in left display, PROD 1 in right. The LED in the 1 product button begins to flash.
11.	Press product button 1  The LED in product 1 continues to flash. Cook time appears in left display; O or a time programmed previously appears in right display.
12.	Press to step to next choice.
13.	Set-Temp appears in left display; a temperature in Fahrenheit or Celsius appears in the right display.
14.	Press I to toggle between choices.
15.	With desired choice displayed, press
	Sens appears in left display; right is blank.
- , .	Press .
18.	Segment appears in left display; Prod appears in right.

20. Display shows product on left; right is blank. All LEDs flash.

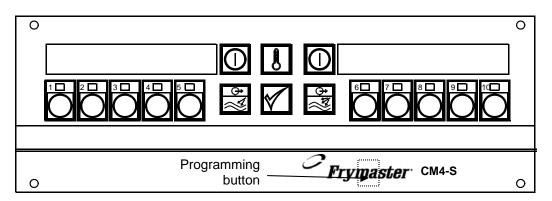
to turn computer off.

19. Press

# **Operational and Diagnostic Programming Codes**

# Diagnostic Hints

The CM4-S records recovery time, which is the time required for the fryer to raise the temperature of the oil from 250°F to 300°F. This information is accessible with a programming code. Other useful measures, such as total heads cooked and heads cooked since last filtering, are also accessible.



# **Entry Codes**

# All codes are preceded by this sequence:

Press . Computer displays OFF.

Press programming key in Frymaster logo. Code appears in left display. Use product keys to enter access codes.

### ese product keys to enter decess

Enter 1651: Computer reloads default settings.

# **Recovery Time**

**Default settings** 

Enter 1652: Computer displays recovery time.

### **Heads Cooked**

Enter 1653: Computer displays heads cooked.

# Heads cooked from last filter

Enter 1654: Computer displays heads cooked since last filtering.

# **Computer Setup**

Enter 1656: Set up computer.

# **Clear Head Counter**

Enter 1657: Computer clears head count.

# **Program Global Filter Count**

Enter 1658: Used to enter total cook cycles before computer calls for filtering.

# Programming

Enter 1650: Used to enter programming instructions.

# **Clear Filter Prompt**

Enter 1111: Used to clear a filter prompt on fryers not equipped with filter systems. Church's computers use 1111 to delay filtering.

# **Operational and Diagnostic Programming Codes**

The CM4-S also displays messages, some instructional, such as done, and others are diagnostic.
Common ones are listed at right.

The computer also displays messages. Listed below are the most common and a brief explanation of each.

# Set Back

Fryer is in standby and maintaining a temperature of 250°F. Press to exit and bring fryer to setpoint.

# DONE

Cook cycle is complete. The LED above the chosen product button will flash. Press button under flashing LED to stop alarm.

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Oil temperature is near setpoint and fryer is ready to cook.

FII ter

The fryer has reached a preset number of cook cycles and requires filtering..

# OPEN Drain

The frypot drain valve is open.

FILL

Filter cycle is complete and frypot drain valve is open. Close drain valve and press to exit filter cycle and refill frypot.

HI- Temp

Fryer is above 390°F (199°C)

LOW

Fryer temperature is below 255°F (124°C)

Probe Fail ure

Temperature probe circuit failed.

Hi Temp Probe Fail ure

Hi-limit temperature has been exceeded and the hi-limit switch failed to open. The computer will shut down the fryer.





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