

Your Growth Is Our Goal

FilterQuick[™] FQ4000 easyTouch® Controller

Operation Manual

This manual is updated as new information and models are released. Visit our website for the latest manual.



△ CAUTION READ THE INSTRUCTIONS BEFORE USING.



Part Number: FRY_IOM_8197474 02/2019 rev. 02.18.19

Original Instructions



NOTICE

IF, DURING THE WARRANTY PERIOD, THE CUSTOMER USES A PART FOR THIS FRYMASTER FOOD SERVICE EQUIPMENT OTHER THAN AN <u>UNMODIFIED</u> NEW OR RECYCLED PART PURCHASED DIRECTLY FROM FRYMASTER, OR ANY OF ITS AUTHORIZED SERVICE CENTERS, AND/OR THE PART BEING USED IS MODIFIED FROM ITS ORIGINAL CONFIGURATION, THIS WARRANTY WILL BE VOID. FURTHER, FRYMASTER AND ITS AFFILIATES WILL NOT BE LIABLE FOR ANY CLAIMS, DAMAGES OR EXPENSES INCURRED BY THE CUSTOMER WHICH ARISE DIRECTLY OR INDIRECTLY, IN WHOLE OR IN PART, DUE TO THE INSTALLATION OF ANY MODIFIED PART AND/OR PART RECEIVED FROM AN UNAUTHORIZED SERVICE CENTER.

NOTICE

This appliance is intended for professional use only and is to be operated by qualified personnel only. A Frymaster Factory Authorized Servicer (FAS) or other qualified professional should perform installation, maintenance, and repairs. Installation, maintenance, or repairs by unqualified personnel may void the manufacturer's warranty.

NOTICE

This equipment must be installed in accordance with the appropriate national and local codes of the country and/or region in which the appliance is installed.

NOTICE TO OWNERS OF UNITS EQUIPPED WITH CONTROLLERS

U.S.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation. While this device is a verified Class A device, it has been shown to meet the Class B limits.

CANADA

This digital apparatus does not exceed the Class A or B limits for radio noise emissions as set out by the ICES-003 standard of the Canadian Department of Communications.

Cet appareil numerique n'emet pas de bruits radioelectriques depassany les limites de classe A et B prescrites dans la norme NMB-003 edictee par le Ministre des Communcations du Canada.



Prior to movement, testing, maintenance and any repair on your Frymaster fryer, disconnect ALL electrical power from the fryer.

A DANGER

Keep all items out of drains. Closing actuators may cause damage or injury.

⚠ DANGER

Remove all drops of water from the frypot before filling with oil. Failure to do so will cause spattering of hot liquid when the oil is heated to cooking temperature.



Do not add HOT or USED oil to a JIB.



NEVER drain boil out or cleaning solution into a shortening disposal unit (SDU), a built-in filtration unit, a portable filter unit, or an OQS (Oil Quality Sensor). These units are not intended for this purpose and will be damaged by the solution and void the warranty.



When draining oil into a disposal unit, do not fill above the maximum fill line located on the container.

A DANGER

Allow oil to cool to 100°F (38°C) before draining into an appropriate METAL container for disposal.

A DANGER

When draining oil into an appropriate SDU or METAL container, ensure the container will hold at least FOUR gallons (15 liters) or more for FQE30-T or FQG30-T fryers. Otherwise oil could overflow and can cause injury.

A DANGER

When draining boil out solution oil into an appropriate METAL container, ensure the container will hold at least FOUR gallons (15 liters) or more for FQE30U-T or FQG30U-T fryers. Otherwise boil out solution could overflow and can cause injury.

DANGER

Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.

DANGER

Ensure that the frypot and filter pan are completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.

MARNING

The on-site supervisor is responsible for ensuring that operators are made aware of the inherent hazards of operating a hot oil filtering system, particularly the aspects of oil filtration, draining and cleaning procedures.

A DANGER

Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

MARNING

Never drain water into the filter pan. Water will damage the filter pump

MARNING

Ensure a filter paper/pad is in place prior to filtering, draining or disposing of oil. Failure to insert a filter paper/pad may result in clogged lines and/or pumps.

A DANGER

DO NOT drain more than one full frypot or two split frypots into the SDU at one time to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

MARNING

Never operate the filter system without oil in the system.



Never use the filter pan to transport old oil to the disposal area.

WARNING

Never leave the fryer unattended during the boil out process. If the solution overflows, press the ON/OFF switch to the OFF position immediately.

MARNING

This appliance is not intended for use by children under the age of 16 or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by a person responsible for their safety. Do not allow children to play with this appliance.

MARNING

Operation, installation, and servicing of this product may expose you to chemicals/products including [Bisphenol A (BPA), glass wool or ceramic fibers, and crystalline silica], which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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CHAPTER 1: FILTERQUICK™ FQ4000 CONTROLLER INSTRUCTIONS

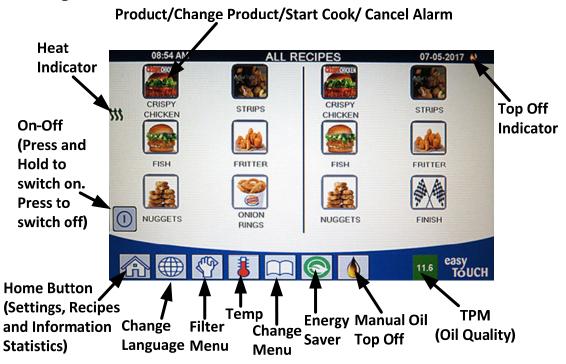
1.1 FQ4000 General Information

Welcome to the FQ4000, an easy to use touch screen controller with the utility of 40-product menu capability. One button push starts a cook cycle for a selected product. The controller can move seamlessly from one product to another.

The FQ4000 will operate with electric and gas fryers, both full- and split-vat.

1.2 FQ4000 Button Description and Functions

1.2.1 Navigation Buttons



1.2.1.1 Main Menu Button Bar

The main menu button bar at the bottom of the screen is used to navigate the various FQ4000 menus (see Figure 1).



Figure 1

1.2.1.2 Home Button

The home button is used to switch to the home screen (see Figure 2). The home screen has Crew Mode, Menus, Recipes, Settings, Service, Change Language, Filter and Information Statistics buttons.



Figure 2

1.2.1.3 Crew Mode Button

The crew mode button switches from the home screen to the cooking mode (see Figure 3).



Figure 3

1.2.1.4 Menus Button

The menus button is used to set up multiple menus with specific products such as fry station, chicken, other products, breakfast, lunch or changeover menus (See Figure 4).



Figure 4

1.2.1.5 Recipes Button

The recipes button allows editing or adding of products (see Figure 5).



Figure 5

1.2.1.6 Settings Button

The settings button allows access to edit the settings of the fryer (see Figure 6).

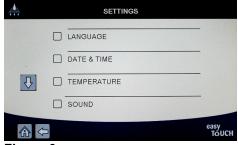


Figure 6

MANAGER E-LOG PASSCODE RESET USB - MENU OPERATION easy TOUCH

Figure 7

1.2.1.7 Service Button

The service button allows access to service functions in the fryer (see Figure 7).

During programming and other functions if no activity occurs within one minute, the controller returns to the previous operation mode.

1.2.1.8 Power Button

Pressing and holding the power button soft powers up the user interface and fryer. Pressing the power button when the fryer is on turns the fryer off (see Figure 8).



Figure 8

1.2.1.9 Language Button

Pressing the language button switches between a primary language and a secondary language if the feature is configured in manager settings (see Figure 9).



Figure 9

1.2.1.10 Filter Menu Button

Pressing the filter menu button provides access to the functions associated with filtering, disposing, draining, filling as well as deep cleaning the vats (see Figure 10). When the hand is yellow, a filtration has been bypassed once. When it is red, a filtration has been bypassed more than once and requires filtration.



Figure 10

1.2.1.11 Temperature Button

Pressing the temperature button displays the actual vat temperature and the setpoint temperature (see Figure 11).



Figure 11

1.2.1.12 **Menu Button**

Pressing the menu button allows switching between different menus if configured (see Figure 12).



Figure 12

1.2.1.13 Energy Saver Button

Pressing the energy saver button switches the fryer from a standard setpoint to a lower temperature setpoint when the fryer is idle, to save energy costs (see Figure 13).



Figure 13

1.2.1.14 Information Statistics Button

Pressing the information statistics button provides information on filter statistics, oil statistics, life statistics, usage statistics, recovery time, last load statistics, and software versions (see Figure 14).



Figure 14

1.2.1.15 Manual Oil Top Off Button

Pressing the manual oil top off button allows the user to manually top off the vat of oil (see Figure 15).



Figure 15

1.2.1.16 Escape Menu Items

To escape or back out of MENUS and SUB-MENUS, press the Home or Back arrow button (see Figure 16).





1.2.1.17 TPM (Total Polar Materials) OQS (Oil Quality Sensor) Button

Pressing the TPM button when solid, displays the last 30 days of TPM/OQS readings (see Figure 17). Pressing the TPM button when blinking, denotes it has been more than 24 hours since the last OQS filter and will prompt for an OQS filter.

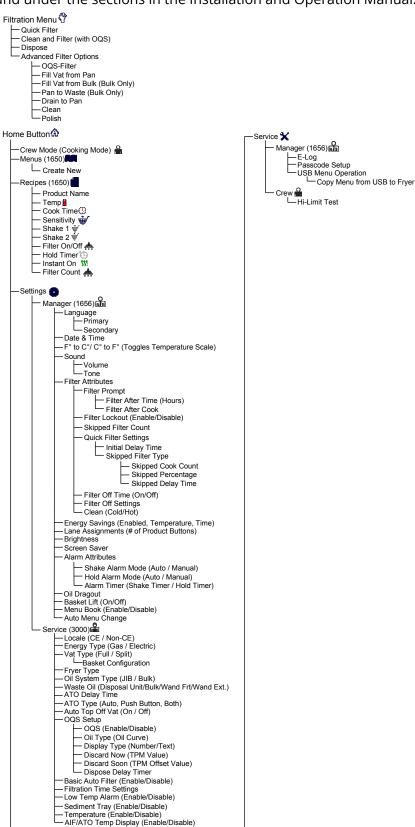
Figure 16

11.6

Figure 17

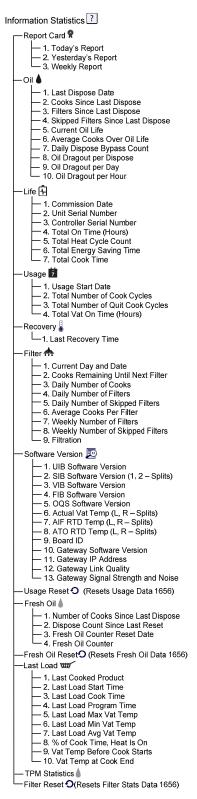
1.3 FQ4000 Menu Summary Tree

Reflected below are the major programming sections in the FQ4000 and the order in which submenu headings will be found under the sections in the Installation and Operation Manual.



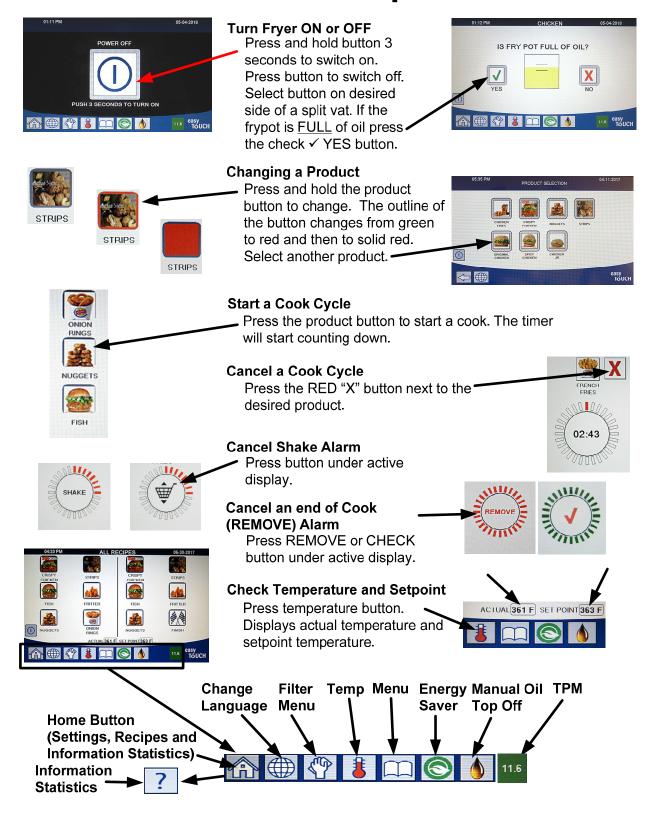
1.4 FQ4000 Information Summary Tree

Reflected below are the information statistics in the FQ4000 and the order in which submenu headings will be found in the controller.



1.5 Basic Operation

FQ4000 Basic Operation



1.6 Cooking

Cooking with the FQ4000

A product is shown in display. Choose a different product press and hold the product button to change. The outline of the button changes from green to red and then to solid red. Select another product.









2 Press the product button to begin the cook cycle.



3 Display changes to timer with remaining cook time.



4 SHAKE alternating with basket is displayed when it is time to shake the fry basket.





5 Press SHAKE/BASKET button to cancel SHAKE alarm.





6 REMOVE alternating with the CHECKMARK is displayed when the cook cycle is complete.



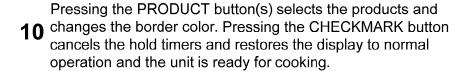


7 Press the REMOVE/CHECKMARK button to cancel alarm.





- **8** HOLD TIMERS run in the background and are not displayed until the hold timer expires.
- **9** A HOLD TIMER EXPIRED PRODUCTS screen displays products that have expired hold timers.











1.7 Fryer (Service) Setup Programming

It is necessary upon initial power up or when changing out a controller to configure the parameters for the fryer. The setup includes locale, energy type, vat type, fresh oil type, waste oil type and auto top off settings. **NOTE:** These settings should **ONLY** be changed by a technician.

DISPLAY		ACTION
	1.	With the controller at the off/standby position, press the Home button.
	2.	Press the Settings button.
	3.	Press the Service button.
3000	4.	Enter 3000
√	5.	Press the √ (check) button.
□ LOCALE	6.	Press the Locale button.
CE NON-CE	7.	Select CE or NON-CE . CE (European Conformity standards) or Non-CE (non-European standards)
SETUP COMPLETE RESTART THE SYSTEM	8.	No action.
√	9.	Press the √ (check) button.
□ ENERGY TYPE	10.	Press the Energy Type button.
GAS ELECTRIC	11.	Select GAS or ELECTRIC
SETUP COMPLETE RESTART THE SYSTEM	12.	No action.
√	13.	Press the √ (check) button.
□ VAT TYPE	14.	Press the Vat Type button.
FULL VAT SPLIT VAT	15.	Select FULL VAT or SPLIT VAT .
8 / 24	16.	Select Basket Configuration. Set for 8 to have 4 products per side available or 24 to have 12 products per side available.
LANE 1/4 LANE 2/4 LANE 3/4 LANE 4/4	17.	Press the Product icon and choose the desired product. Repeat for other lanes.
	18.	Press the Save button when complete.
SETUP COMPLETE RESTART THE SYSTEM	19.	No action.
	20.	Press the √ (check) button.

DISPLAY	ACTION	
Ū.	. Press the Down arrow button.	
□ OIL SYSTEM TYPE	. Press the Oil System Type button.	
JIB BULK	Select JIB or BULK. NOTE: A JIB (Jug in a Box) or BIB (Bag in a Box) is disposable type oil container. A bulk system has storage oil tanks that are connected to the fryer onboard reservoir.	large
SETUP COMPLETE RESTART THE SYSTEM	. No action.	
	. Press the √ (check) button.	
□ WASTE OIL	. Press the Waste Oil button.	
DISPOSAL UNIT BULK WAND FRONT WAND EXTERNAL SETUP COMPLETE RESTART THE SYSTEM	 Select DISPOSAL UNIT, BULK, WAND FRON EXTERNAL. NOTE: Select DISPOSAL UNIT if disposing oil into other METAL container. Select BULK if disposing bulk oil system, which has large storage oil tank connected to the fryer. Select WAND FRONT if dusing a wand connected to the fryer. Select WAN EXTERNAL if using an external dispose system u with suction to extract the oil from the frypot. No action. Press the √ (check) button. 	o an SDU or g oil into a s that are isposing ND
370 271 277		
O MINUTES	 Press the ATO Delay time button. Press the time to change the delay time after oil reservoir has been changed before the sys to top off. Press the √ (check) button. The de minutes for liquid shortening. Enter a value group of for solid shortening. 	tem begins fault is 0
SETUP COMPLETE	. Press the smaller √ (check) button inside the S COMPLETE box.	SETUP
□ ATO TYPE	. Press the ATO Type button.	
AUTO PUSH BUTTON BOTH	 Select AUTO if auto top if auto top off is insta PUSH BUTTON if only manual top off is instal BOTH if both auto and manual top off are ins desired. 	led. Select

DISPLAY	ACTION
SETUP COMPLETE	36. Press the √ (check) button inside the SETUP COMPLETE box.
□ AUTO TOP OFF VAT	37. Press the Auto Top Off Vat button.
	38. Select LEFT VAT or RIGHT VAT for split vats (Split Vats only).
ON OFF	39. Select ON unless top off is not desired for this vat. Default is ON .
\Box	40. Press the Down arrow button.
□ OQS SETUP	41. Press the OQS Setup button if an OQS sensor is installed.
□ OQS ENABLE/DISABLE	42. Press OQS ENABLE/DISABLE button to enable/disable the OQS sensor.
ENABLE DISABLE	43. Select ENABLE to enable the OQS sensor or DISABLE to disable the OQS sensor.
SETUP COMPLETE	44. Press the √ (check) button inside the SETUP COMPLETE box.
□ OIL TYPE	45. Press the Oil Type button.
OC01v01, OC02v02, etc.	46. Select the correct oil type curve. Press the down arrow button to scroll to additional oil type curves. Use the table on instruction sheet 8197316 to determine the oil type. Ensure the oil type matches what the store is using.
SETUP COMPLETE	47. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISPLAY TYPE	48. Press the Display Type button.
NUMBER TEXT	49. Select NUMBER or TEXT . NOTE: If set to NUMBER the Total Polar Materials is shown as a number. If set to Text, only DISCARD SOON/CONFIRM, OIL IS GOOD or DISCARD NOW is shown.
SETUP COMPLETE	50. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISCARD NOW	51. Press the Discard Now button.
TPM VALUE	52. Press the number above TPM Value. Once the TPM (Total Polar Materials) value of the oil is attained, the fryer will prompt to discard the oil.
1 2 3 4 5 X X 6 7 8 9 0 C Cally Touch	53. Use the keypad to enter the TPM discard now value.
V	54. Press the √ (check) button once the value is entered.

DISPLAY	ACTION
	55. Press the √ (check) button to save the value.
SETUP COMPLETE	56. Press the √ (check) button inside the SETUP COMPLETE box.
₽	57. Press the down arrow button.
□ DISCARD SOON	58. Press the Discard Soon button.
TPM VALUE	59. Press the number above Discard Soon TPM Value. This value is typically chosen as a number below the TPM Discard Now value. This value will display the Discard Soon message when the TPM Discard Soon value is attained. This serves as a notice to the staff that the oil will need to be discarded soon.
1 2 3 4 5 XX X 6 7 8 9 0 C	60. Use the keypad to enter the TPM discard soon value.
I	61. Press the √ (check) button once the value is entered.
✓	62. Press the √ (check) button to save the value.
SETUP COMPLETE	63. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISPOSE DELAY TIMER	64. Press the Dispose Delay Timer button. This is the amount of time once the DISCARD NOW prompt is displayed and bypassed before the DISCARD NOW message returns. (Default is: 30 minutes. Minimum value is :00 = DISABLED, maximum value is 4:00 hours.)
HOURS MINUTES	65. Press the hour's box to enter a delay time in hours.
1 2 3 4 5 XX X 6 7 8 9 0 C	66. Using the key pad, enter the time in hours.
0 : 30 HOURS MINUTES	67. Press the minute's box to enter a delay time in minutes.

DISPLAY	ACTION
1 2 3 4 5 X X 6 7 8 9 0 C cary Toluch	68. Using the key pad enter the time in minutes.
I	69. Press the √ (check) button to save the value.
SETUP COMPLETE	70. Press the √ (check) button inside the SETUP COMPLETE box.
\Box	71. Press the back button when complete.
□ BASIC AUTO FILTER	72. Press the Basic Auto Filter button.
ENABLE DISABLE	73. Select ENABLE Basic Auto Filter (Auto Filtration for units without OIB sensors) or DISABLE Basic Auto Filtration (Auto Filtration for units with OIB sensors).
SETUP COMPLETE	74. Press the √ (check) button inside the SETUP COMPLETE box.
☐ FILTRATION TIME SETTINGS	75. Press the Filtration Time Settings button.
□ POLISH TIME □ CLEAN TIME □ AUTO FILTER FLUSH TIME □ CLEAN & FILTER FLUSH TIME	76. These settings should only be adjusted if instructed by the factory. The default settings are: □ POLISH TIME -300 □ CLEAN TIME -3600 □ AUTO FILTER FLUSH TIME -25 □ CLEAN & FILTER FLUSH TIME -25 Press the back button when complete.
\Box	77. Press the down arrow button.
□ LOW TEMP ALARM	78. Press the Low Temp Alarm button.
ENABLE DISABLE	79. Select ENABLE to enable the low temperature alarm or DISABLE to disable the low temperature alarm.
SETUP COMPLETE	80. Press the √ (check) button inside the SETUP COMPLETE box.
\Box	81. Press the down arrow button.
□ SEDIMENT TRAY	82. Press the Sediment Tray button.
ENABLE DISABLE	83. Select ENABLE if using sediment trays or DISABLE if sediment trays are NOT used.
SETUP COMPLETE	84. Press the √ (check) button inside the SETUP COMPLETE box.
	85. Press the Home button.

DISPLAY	ACTION
CREW MODE	86. Press the Crew Mode button.
	87. Press and hold the momentary reset switch. Ensure the switch is pressed and held for one (1) minute . In newer fryers the switch is located below the USB port. On older gas units, the button is located under the far-left control box. On older electric units, the button is located on the rear of the control box behind the JIB reset switch.
	88. The system reboots in approximately 45 seconds and returns to off/standby mode.

1.8 Fryer (Manager) Settings Programming

It is necessary upon initial power up or when changing out a controller to configure these local manager settings for the fryer. The setup includes language, date and time, temperature scale, sound settings, filter settings, energy savings, lane assignments and screen brightness. These settings should ONLY be changed by a manager or technician.

settings should UNLY be changed by a manager or technician.			
DISPLAY	ACTION		
	With the controller at the off/standby position, press the Home button.		
	2. Press the Settings button.		
	3. Press the Manager button.		
1656	4. Enter 1656		
	5. Press the √ (check) button.		
□ LANGUAGE	6. Press the Language button.		
	7. Press the Primary Language button.		
□ ENGLISH	8. Select the language desired.		
	9. Press the Secondary Language button.		
□ SPANISH	10. Select the language desired.		
\Box	11. Press the Back button.		
□ DATE & TIME	12. Press the Date & Time button.		
()	13. Press the Set Time button		
08:22	14. Press the hour's box.		

DICTION	
DISPLAY True 1 2 3 4 5 X X 6 7 8 9 0 C Easy TOUCH	ACTION 15. Using the key pad, enter the time in hours.
08: 22	16. Press the minute's box.
1 2 3 4 5 X X 6 7 8 9 0 C X	17. Using the key pad enter the time in minutes.
AM PM 24hr	18. Press the AM, PM or 24HR button.
	19. Press the √ (check) button.
SETUP COMPLETE	20. Press the smaller √ (check) button inside the SETUP COMPLETE box.
7	21. Press the Set Date button
DD:MM:YY MM:DD:YY	22. Press the Date Format box to toggle between MM-DD-YY or DD-MM-YY.
2017	23. At the top of the screen, the year is shown. Press the left or right arrow to select the year.
MARCH MARCH	24. Below the year is the month. Press the left or right arrow to select the month.
V	25. Select the date using the numbered keys and press the √ (check) button.
SETUP COMPLETE	26. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	27. Press the DST (DAYLIGHT SAVINGS TIME) SETUP button.
□ DST ON/OFF	28. Press the DST ON/OFF button.
ON OFF	29. Select ON to enable DST or OFF to disable DST.
SETUP COMPLETE	30. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ DST SETTINGS	31. Press the DST SETTINGS button.

DISPLAY	ACTION
□ DST START MONTH □ DST START SUNDAY □ DST END MONTH □ DST END SUNDAY	32. Select any of these and use the keypad to modify. The default settings for the US are: DST START MONTH -3 DST START SUNDAY -2 DST END MONTH -11 DST END SUNDAY -1
V	33. Press the √ (check) button when complete.
SETUP COMPLETE	34. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	35. Press the Back button three (3) times.
□ F° TO C°	36. Press the F° TO C° or F° TO C° button. NOTE: F is used for Fahrenheit, C is used for Celsius
CONFIRM (NO NO	37. Select YES to toggle the temperature scale.
COMPLETED SUCCESSFULLY	38. Press the √ (check) button when complete.
□ SOUND	39. Press the Sound button.
	40. Use the up down arrows to change the volume level and tone. Volume has nine levels with 1 being the softest and 9 the loudest. Tone has three frequencies from 1-3. Use different frequencies to customize the sound.
V	41. Press the √ (check) button when complete.
SETUP COMPLETE	42. Press the smaller √ (check) button inside the SETUP COMPLETE box.
①	43. Press the Down button.
□ FILTER ATTRIBUTES	44. Press the Filter Attributes button.
□ FILTER PROMPT	45. Press the Filter Prompt button. The auto filtration mode uses two measures before prompting to filter. One checks for cook cycles which is adjusted in the FILTER AFTER COOK setting and the other checks for time which is adjusted in the following section FILTER AFTER TIME setting. The prompt for filtration is initiated by whichever occurs first; either the number of cycles elapsed or time elapsed.

DISPLAY	ACTION
□ FILTER AFTER TIME	46. Press the FILTER AFTER TIME button. The Filter Time option is used to set the elapsed time before a filtration prompt. This option is useful in lower volume stores, where filtration is desired more often than the amount the cook cycles would generate.
	47. Press the √ (check) button to continue or press the number button and enter the number of hours in between filter prompts. (ex. after every two hours, enter as 2) and press the √ (check) button. (By default, the time is set to 0 hours to disable)
√	48. Press the √ (check) button.
SETUP COMPLETE	49. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ FILTER AFTER COOK	50. Press the FILTER AFTER COOK button. The FILTER AFTER option is used to set the number of cooking cycles which occur before the filtration prompt is displayed. If no prompts are desired set to 0 to disable.
V	51. Press the √ (check) button to continue or press the number button and enter the number of cooks and press the √ (check) button
	52. Press the √ (check) button.
SETUP COMPLETE	53. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	54. Press the Back button.
□ FILTER LOCKOUT	55. Press the FILTER LOCKOUT button.
ENABLE DISABLE	56. Select enable to enable the filter lockout. Select disable to disable the filter lockout. Filter lockout will lockout the fryer based off the settings in the skipped filter count setting.
SETUP COMPLETE	57. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED FILTER COUNT	58. Press the SKIPPED FILTER COUNT button.
	59. Press the √ (check) button to continue or press the number button and enter the number of skipped filters allowed before the filter lockout locks out the fryer and press the √ (check) button. If set to 0, no bypasses are allowed.
SETUP COMPLETE	60. Press the smaller √ (check) button inside the SETUP COMPLETE box.

DISPLAY	ACTION
□ QUICK FILTER SETTINGS	61. Press the QUICK FILTER SETTINGS button.
□ INTIAL DELAY TIME	62. Press the Initial Delay Time button.
MINUTES 05.04.2018	63. Press the minute's box to adjust the initial delay time. The initial delay time is the time the fryer sits idle, after filter after or filter cooks have been completed, before prompting for a filter. (Default is two (2) minutes.)
1 2 3 4 5 X X 6 7 8 9 0 C Casy Touch	64. Using the key pad to enter the time in minutes.
√	65. Press the √ (check) button.
√	66. Press the √ (check) button.
SETUP COMPLETE	67. Press the smaller √ (check) button inside the SETUP COMPLETE box.
☐ SKIPPED FILTER TYPE	68. Press the SKIPPED FILTER TYPE button.
□ SKIPPED COOK COUNT□ SKIPPED PERCENTAGE□ SKIPPED DELAY TIME	69. The selection highlighted is the current type configured. To edit, select the type of skipped filter type.
□ SKIPPED COOK COUNT	70. Press the SKIPPED COOK COUNT button.
NUMBER OF COOKS	71. Press the NUMBER OF COOKS box to adjust the skipped cook counts before re-prompting for a filter.
1 2 3 4 5 X X 6 7 8 9 0 C X	72. Using the key pad to enter the time in minutes.
√	73. Press the √ (check) button.
√	74. Press the √ (check) button.
SETUP COMPLETE	75. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED PERCENTAGE	76. Press the % OF TIMER OR COOK COUNT button.

DISPLAY	ACTION
50 4 % OF TIMER OR COOK COUNT	77. Press the % OF TIMER OR COOK COUNT box to adjust the percentage of a filter time timer or cook count before reprompting for a filter. Example: If set for 50%, after skipping it will half the time or cooks before re-prompting. If the original filter count was 6, setting to 50% will reprompt at 3.
1 2 3 4 5 X X X 6 7 8 9 0 C X	78. Using the key pad to enter the time in minutes.
√	79. Press the √ (check) button.
√	80. Press the √ (check) button.
SETUP COMPLETE	81. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED DELAY TIME	82. Press the Skipped Delay Time button.
5 MINUTES	83. Press the minute's box to adjust the skipped delay time. The skipped delay time is the time after the initial filter is skipped before it prompts again to filter. The first time the filter is skipped the filter button turns from white to yellow. The next time the filter is skipped, the filter button turns from yellow to red until the filter is performed. (Default is five (5) minutes.)
05.04-2016 SKIPPED DELAY TIME 1 2 3 4 5 X X 6 7 8 9 0 C Casy Touch	84. Using the key pad enter the time in minutes.
V	85. Press the √ (check) button.
√	86. Press the √ (check) button.
SETUP COMPLETE	87. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ FILTER OFF TIME	88. Press the Filter Off Time button. The Filter Off Time option is used to set times in which the filter prompt is disabled (ex. noon rush).
ON OFF	89. Select ON to enable FILTER OFF TIME. Select OFF to disable FILTER OFF TIME.

DIGD! AV	ACTION
DISPLAY	ACTION
	90. Press the Filter Off Settings button. The Filter Off Settings
	option is used to set the times in which the filter prompt is
☐ FILTER OFF SETTINGS	disabled (ex. noon rush).
	NOTE: If FILTER OFF TIME is disabled (OFF), this option
	is grayed out and not available.
FILTER OFF SETTINGS M.F 1 START HOURS MINUTES HOURS MINUTES AM PM AM PM Casy TOUCH	91. Use the up down arrows to scroll between M-F 1 thru SUN 4. There are a total of 12 periods which can be programmed for filter prompt lockout. Select the field to edit the start and stop times of when the filter prompt should be suspended. Select AM/PM. Once the times are selected press the check button to save the setting. (The example at the left shows on Monday – Friday no filtering is desired during a lunch rush from 11:00 AM until 2:00 PM.)
√	92. Once the times are selected press the √ (check) button.
	93. Press the smaller √ (check) button inside the SETUP
SETUP COMPLETE	COMPLETE box.
	94. Press the Down button.
- CLEAN	OF Proce the Clean button Change LIOT (Pail Out) or COLD
□ CLEAN	95. Press the Clean button. Choose HOT (Boil Out) or COLD (Cold Soak).
SETUP COMPLETE RESTART THE	(Cold Soak).
SYSTEM	
STSTEW	96. Press the √ (check) button.
\	, , ,
\(\frac{1}{2} \)	97. Press the Back button two (2) times.
	98. Press the Energy Savings button. The Energy Savings
□ ENERGY SAVINGS	option is used during idle periods to lower the frypot
	temperature to save energy.
OFF ON	99. Press the Enable button to toggle the Energy Saving option on or off.
	100. Press the Set Back Temp button to change the setpoint of
	the Energy Saving option. Use the number pad to enter
V	the Energy Saving setpoint temperature and press the √
	(check) button.
	101. Press the Idle Time button to change the amount of time
	in minutes the vat sits idle before automatically entering
	the Energy Saving mode. Use the number pad to enter the
	Energy Saving setpoint temperature and press the √
	(check) button.

DISPLAY	ACTION
√	102. Press the √ (check) button.
SETUP COMPLETE	103. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ LANE ASSIGNMENTS	104. Press the Lane Assignments button. This is used to set the number of products per vat.
4, 8, 12, 24	105. Press the 4 button to have 4 products per vat (2 per side) available; or 8 button to have 8 products per vat (4 per side) available; or 12 button to have 12 products per vat (6 per side) available; or 24 button to have 24 products per vat (12 per side) available.
SETUP COMPLETE RESTART THE SYSTEM	106. Press the √ (check) button.
□ BRIGHTNESS	107. Press the Brightness button. This is used to set the brightness of the screen. Use the up down arrows to adjust. (Default is 100.)
	108. Press the √ (check) button.
SETUP COMPLETE	109. Press the smaller √ (check) button inside the SETUP COMPLETE box.
\Box	110. Press the Down button.
□ SCREEN SAVER	111. Press the Screen Saver button. This is used to set the amount of time, after the controller is turned off, before going into a screen saver mode. Use the up down arrows to adjust time. (Default is 15 minutes.)
	112. Use the up down arrows to change the brightness of the screen. Brightness has nine levels with 100 being the brightest and 10 the darkest.
√	113. Press the √ (check) button when complete.
SETUP COMPLETE	114. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ ALARM ATTRIBUTES	115. Press the Alarm Attributes button
□ SHAKE ALARM MODE	116. Press the Shake Alarm Mode button. Select Auto or Manual. The Shake Alarm Mode allows the user to select between auto or manual shake alarm cancel.
SETUP COMPLETE RESTART THE SYSTEM	117. Press the √ (check) button.

DISPLAY	ACTION
√	
□ HOLD ALARM MODE	118. Press the Hold Alarm Mode button. Select Auto or Manual. The Hold Alarm Mode allows the user to select between auto or manual hold alarm cancel.
SETUP COMPLETE RESTART THE	
SYSTEM	119. Press the √ (check) button.
□ ALARM TIMER	120. Press the Alarm Timer button. These settings allow the user to select the amount of time before auto cancelling the shake alarm timer or hold alarm. Default settings are 5 seconds.
SETUP COMPLETE RESTART THE SYSTEM	121. Press the √ (check) button.
	122. Press the Back button two (2) times.
□ TEMPERATURE	123. Press the Temperature button.
ENABLE DISABLE	124. Select enable to enable the temperature button. Select disable to disable the temperature button and display constant temperature display.
SETUP COMPLETE	125. Press the √ (check) button.
□ OIL DRAGOUT	126. The Oil Drag out function sets parameters that adjust flow and flow adjust. These parameters are used to calculate oil drag out usage for statistical information that is captured in the Information Statistics function under Oil statistics.
□ FLOW	127. Enter the oil drag out flow rate of pounds per minute (Default is 2.211) and press the √ (check) button. (Note: Enter values from 0100-4000 for ranges 0.100-4.000lbs).
SETUP COMPLETE	128. Press the √ (check) button when complete.
□ FLOW ADJUST	129. Enter the configurable flow rate (Default is 1) and press the √ (check) button. (Note: Enter values from 10-200 for ranges 0.10-2.00lbs).
SETUP COMPLETE	130. Press the √ (check) button when complete.
□ BASKET LIFT	131. Press the Basket Lift button.

DISPLAY	ACTION
ON OFF	132. Select ON to enable the basket lift or OFF to disable the basket lift.
SETUP COMPLETE RESTART THE SYSTEM	133. Press the √ (check) button.
\bigcirc	134. Press the Down button.
□ MENU BOOK	135. Press the Menu button.
ENABLE DISABLE	136. Select enable to enable the menu book button on the bottom of the screens.
SETUP COMPLETE	137. Press the √ (check) button when complete.
□ AUTO MENU CHANGE	138. Press the Auto Menu Change button.
10:17 AM	139. Enabling Auto Menu Change is used to automatically change between different menus (ie. Breakfast, Changeover, Lunch, other). Press the OFF button to change to ON to enable a menu. Enter time in 24hr format for when the specific menu should start. See example left.
\Box	140. Press the Back button.
	141. Press the Home button.
CREW MODE	142. Press the Crew Mode button.
	143. Press and hold the momentary reset switch. Ensure the switch is pressed and held for one (1) minute . On gas units, the button is located under the far-left control box. On electric units, the button is located on the rear of the control box behind the JIB reset switch.
	144. The system reboots in approximately 45 seconds and returns to off/standby mode.

1.9 Adding or Editing Existing ProductsThis function is used to add additional products or edit existing products.

DISPLAY	ACTION
DISPLAT	ACTION
	1. Press the Home button.
	2. Press the Recipes button.
1650	3. Enter 1650
	4. Press the √ (check) button.
ALL RECIPES CICCUTAN FIRST FIRST	5. Choose the product icon to edit or press the + to add a new product.
	6. Press the pencil icon at the bottom of the screen to edit an existing product.
ALL RECPES A S D F G H J K L T Z X C V B N M X 7123 SPACE CAST TOUCH	7. Enter or change the name of the product using the keyboard.
	8. Press the √ (check) button.
12.51	9. This screen displays the current setpoint, cook time, sensitivity, hold timer, shake timers and filter settings. To edit a parameter, press the item to edit.
	10. To edit temperature, press the temp button.
NEW RECIPE 350 1 2 3 4 5 X X 6 7 8 9 0 C Casy Touch	11. Use the keypad to enter or edit the cook temperature for the product.
	12. Press the √ (check) button.
<u></u>	13. Press the cook time button.

DICDLAY	ACTION
DISPLAY NEW RECIPE 03:10 1 2 3 4 5 X X 6 7 8 9 0 C Casy Touch	ACTION 14. Use the keypad to enter or edit the cook time in minutes and seconds.
	15. Press the √ (check) button.
*	16. Press the load compensation or sensitivity button.
NEW RECIPE LOAD SIZE LOAD SIZE	 17. Use the up and down arrows to change the load compensation or sensitivity setting recommended for this product. This setting allows the product compensation (sensitivity) to be changed. Some menu items may need an adjustment, depending on their cooking characteristics. NOTE: It is highly recommended to NOT adjust this setting, as it could have an adverse effect on the products cooking cycles. (The default setting for product compensation is set to four (4).)
	18. Press the √ (check) button.
	19. Press the Shake Timer 1 button.
NEW RECIPE 00 30	20. Enter the time in minutes and seconds for the first shake to be performed.
	21. Press the √ (check) button.
\$	22. Press the Shake Timer 2 button if an additional shake is needed, otherwise skip to step 26.
NEW RECIPE 00:30 1 2 3 4 5 X X 6 7 8 9 0 C 2037 76UCH	23. Enter the time in minutes and seconds for the second shake to be performed.
√	24. Press the √ (check) button.

DISPLAY	ACTION
\Box	25. Press the down arrow to scroll to more settings.
	26. Press the Filter button. (NOTE: ON or OFF is displayed for current selection.)
NEW RECIPE OFF GRASY TOUCH	27. Ensure that the filter button is ON to enable auto filtration for this product. This setting is used to prevent co-mingling of product specific oils. For products such as FISH, select NO to prevent auto filtration if desired.
H(C)	28. Press the Hold Timer button.
NEW RECIPE 07.00 1 2 3 4 5 X 6 7 8 9 0 C Casy Touch	29. Enter the time in minutes and seconds for the product hold time.
	30. Press the √ (check) button.
555	31. Press the Instant On button.
00:30 1 2 3 4 5 X 6 7 8 9 0 C **Such	32. This is the time, in seconds, the fryer heats at 100%, after the product button is pressed before the controller adjusts the temperature. Enter the time in minutes and seconds for the instant on time (ie. 00:30=30 seconds). (0=OFF). NOTE: Instant on time may need to be adjusted for light cooking loads.
	33. Press the √ (check) button.
	34. Press the Filter Count button.
0424PM FILTER COUNT 010 1 2 3 4 5 X X 6 7 8 9 0 C Casy Touch	35. Enter the number of cooking cycles which occur for this product before the filtration prompt is displayed. This is for product only and is not to be confused with a global filter count. If no prompts are desired set to 0 to disable.
	36. Press the √ (check) button.

DISPLAY	ACTION
CHOOSE ICON FOR THE RECIPE	37. Choose the icon to associate with the product recipe that is being entered or edited.
	38. Press the √ (check) button.
CHOOSE THE MENUS ALL RECPES BELASHADT LLINCH CHANGEOVER 12.17.2014 CSSY 00:22 AM TOUCH	39. Choose the menu(s) to associate with the product recipe that is being entered or edited.
	40. Press the √ (check) button.
SAVED	41. The controller displays SAVED.
	42. Press the √ (check) button.
	43. Select another product to edit or press the + key to add additional products. If finished press the home button.
CREW MODE	44. Press the Crew Mode button to return to main screen.

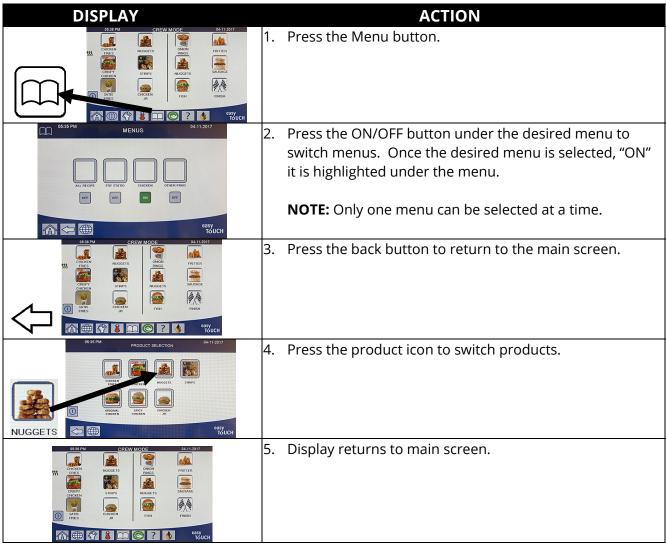
1.10 Adding or Editing Menus

This function is used to add or edit menus. Menus allow the operator to group certain products together. For example, setting up a breakfast menu allows grouping of breakfast only products. This is helpful when switching products by narrowing the number of products to choose from.

DISPLAY	ACTION
	1. Press the Home button.
	2. Press the Menus button.
1650	3. Enter 1650
√	4. Press the √ (check) button.
MENUS MENUS LUNCH OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	5. Select a menu by pressing the button above the ON/OFF button to edit products (highlighted in green) or press the + button to add a new menu. If adding a new menu, enter name of menu on next screen and press the √ (check) button. If deleting a menu, highlight the menu and press the trash can at the bottom of the screen.
Ø	6. Press the pencil icon at the bottom of the screen to edit an existing menu.
PRODUCT SELECTION FIRST CHICAGE SATIS FIRST TRACE TRACE FIRST NOGELTS STREPS JAITER O1-16-2017 COSY O1-58 PM TOUCH	7. Select the desired products by pressing their icons to be added to the chosen menu. The selected products will be highlighted in green. To unselect a product, press the icon and the highlight will change from green to gray.
√	8. Press the √ (check) button when finished to save selected products to menu.
Image: Control of the	9. Press the Back button to edit additional menus starting with step 5, otherwise advance to the next step
	10. Press the Home button.
CREW MODE	11. Press the Crew Mode button.

1.11 Changing Menus

If separate menus are created for Fry Station, Chicken or Other Product, pressing the MENU button from the main screen shall display menu change options. Pressing the desired menu shall switch the menus.



1.12 Service Tasks

Covered in this section are crew and manager service tasks used in stores such as High Limit Test, E-Log (error log), password setup, and functions to copy menus to and from the fryer from USB using menu connect.

1.12.1 High Limit Test

The high-limit test mode is used to test the high limit circuit. The high-limit test will destroy the oil. It should only be performed with old oil. Shut the fryer off and call for service immediately if the temperature reaches 460°F (238°C) without the second high-limit tripping and the controller displays HIGH LIMIT FAILURE DISCONNECT POWER with an alert tone during testing.

The test is cancelled at any time by turning the fryer off. When the fryer is turned back on, it returns to the operating mode and displays the product.

DISPLAY		ACTION
	1.	With the controller at the off/standby position, press the Home button.
×	2.	Press the Service button.
	3.	Press the Crew button.
	4.	Select LEFT VAT or RIGHT VAT for split vats.
PRESS AND HOLD	5.	Press and hold the Press and Hold button to begin high limit test.
RELEASE	6.	While pressing and holding the button the vat begins to heat. The controller displays the actual vat temperature during the test. When the temperature reaches 410°F ± 10° F (210°C ± 12°C)*, the controller displays HOT HI-1 (ex. 410F) and continues heating. *NOTE: In controllers used in the European Union (those with the CE mark), the temperature is 395°F (202°C) when the controller displays HOT HI-1.
HOT HI-1	7.	While continuing to press and hold the button, the fryer continues heating until the high limit opens. Generally, this happens once the temperature reaches 423°F to 447°F (217°C to 231°C) for non-CE high limits and 405°F to 426°F (207°C to 219°C) for CE high limits.
HELP HI-2	8.	Release the button. The vat stops heating and the controller displays the current temperature setting until the temperature cools below 400°F (204°C). Press the power button to cancel the alarm.
HIGH LIMIT FAILURE DISCONNECT POWER	9.	If the controller displays this message, disconnect power to the fryer and immediately call for service.
	10.	After a high limit test, once the vat cools below 400°F (204°C), dispose of the oil.

1.12.2 Manager Functions

1.12.2.1 E-Log

The E-LOG function is used to view the ten (10) most recent error codes encountered on the fryer. These codes are displayed with the most recent errors displayed first. The error code, time and date are displayed.

If no errors exist, the controller is blank in this function. Errors are displayed with the side of the error if a split vat, error code, time and date. An error code displaying an "L" indicates left side of a split vat while an "R" indicates right side of a split vat where the error occurred (R E19 06:34AM 04/22/2014). An error code displaying a "G" indicates this was a global error not specifically linked to a particular vat. Error codes are listed in section 3.2.5 of this manual.

DISPLAY	ACTION
	1. Press the Home button.
×	2. Press the Service button.
	3. Press the Manager button.
1656	4. Enter 1656
	5. Press the √ (check) button.
□ E-LOG	6. Press the E-LOG button. The three most recent errors are shown.
\bigcirc	7. Press the Down button. The next three errors are shown. Continue pressing the down arrow to view additional errors.
	8. Press the Back button to return to menu or press the Home button to exit.
CREW MODE	9. Press the Crew Mode button.

1.12.2.2 Passcode Setup

The password mode allows a restaurant manager to change passwords for various modes.

DISPLAY	ACTION
	1. Press the Home button.
×	2. Press the Service button.
	3. Press the Manager button.
1656	4. Enter 1656

DISPLAY	ACTION
	5. Press the √ (check) button.
□ PASSCODE SETUP	6. Press the PASSCODE SETUP button.
□ MENUS □ RECIPES □ SETTINGS MANAGER □ DIAGNOSTICS MANAGER	7. Select the desired passcode to modify. Use the down arrow to scroll to additional setting. Defaults are: MENUS 1650 RECIPES 1650 SETTINGS MANAGER 1656 DIAGNOSTICS MANAGER 1656
1 2 3 4 5 XX X 6 7 8 9 0 C X	8. Use the keypad to enter new passcode for the selected item.
	9. Press the √ (check) button.
RETYPE PASSWORD	10. Use the keypad to enter the new passcode again to verify.
	11. Press the √ (check) button.
PASSCODE SETUP SUCCESSFUL	12. Press the √ (check) button.
 □ MENUS □ RECIPES □ SETTINGS MANAGER □ DIAGNOSTICS MANAGER 	13. Press the Back button to return to menu or press the Home button to exit.
CREW MODE	14. Press the Crew Mode button.

1.12.2.3 USB - Menu Operation

This option allows the ability to upload menus to the controller. This allows products to be created in MenuSync to be saved to a USB drive and uploaded to the fryer.

DISPLAY	ACTION	
	1. Press the Home button.	
×	2. Press the Service button.	

DISPLAY	ACTION	
	3. Press the Manager button.	
1656	4. Enter 1656	
	5. Press the √ (check) button.	
□ USB – MENU OPERATION	6. Press the USB – MENU OPERATION button.	
□ COPY MENU FROM USB TO FRYER	7. Press the COPY MENU FROM USB TO FRYER button.	
INSERT USB	8. Insert the USB drive into the connector behind the farleft fryer door.	
IS USB INSERTED? YES NO	9. Press YES once the USB drive is inserted.	
READING FILE FROM USB PLEASE DO NOT REMOVE USB WHILE READING	10. No action required.	
MENU.CBR or other *.cbr file	11. A list appears with a list of menu files ending in .cbr. Select the menu file to load.	
UI-UI MENU DATA TRANSFER IN PROGRESS	12. No action required while the file is loading.	
MENU UPGRADE IN PROGRESS	13. No action required while the upgrade is in progress.	
UPGRADE COMPLETE? YES	14. Press YES.	
MENU UPGRADE COMPLETED, REMOVE THE USB AND RESTART THE SYSTEM.	15. Remove the USB drive and power cycle the entire fryer battery using the reset switch behind the far-left fryer door below the USB connector. NOTE: Ensure the switch is pressed and held for at least one (1)	
	<u>minute</u> .	

1.13 Information Statistics

1.13.1 Report Card Statistics

The report card statistics function is used to view a quick report on filtering, OQS, oil quality and frypot utilization.

<i>3</i> I	
DISPLAY	ACTION
?	Press the Information button.
	2. Press the Report Card button.
□ TODAY'S REPORT □ YESTERDAY'S REPORT □ WEEKLY REPORT	3. Select the desired report

DISPLAY	ACTION
Pryer Grade 'A' FILTRING WHEN PROMPTED OIL IS GOOD OIL IS GOOD O3-03-2017 O3-03-2017 O3-03-2017 FRYPOT UTILIZATION OPTIMIZED 90%	4. The report will display the grade based on if the crew is filtering when prompted; if OQS is being measured regularly; the current quality of the oil; and the fryer usage.
easy Touch	
	5. Press the back button to return to menu or the home button to exit.

1.13.2 Oil Statistics

The oil statistics function is used to view the date of last dispose, the number of cooks since last dispose, filters since last dispose, skipped filters since last dispose, current oil life and average number of cooks over the oil life.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
	2. Press the Oil button.
1. LAST DISPOSE DATE	
2. COOKS SINCE LAST DISPOSE 3. FILTERS SINCE LAST DISPOSE	
4. SKIPPED FILTERS SINCE LAST DISPOSE	3. Press the down arrow to scroll to more statistics.
₩ SKII Y EB Y E I E I E I E I E I E I E I E I E I E	Statistics.
5. CURRENT OIL LIFE	
6. AVERAGE COOKS OVER OIL LIFE	
7. DAILY DISPOSE BYPASS COUNT	4. Press the up arrow to scroll up; the back
8. OIL DRAGOUT PER DISPOSE 9. OIL DRAGOUT PER DAY	button to return to menu or the home button
10. OIL DRAGOUT PER HOUR	to exit.

1.13.3 Life Statistics

The life statistics function is used to view the commission date of the fryer which is automatically set once the fryer has completed 25 cooks, the serial number of the controller, the total time the fryer has operated in hours and the total heat cycle count of the fryer (the amount of times the controller has turned the heat on/off).

DISPLAY	ACTION
(A) [?]	Press the Home button and then the Information button.
-	2. Press the Life Stats button.
 COMMISSION DATE UNIT SERIAL NUMBER CONTROLLER SERIAL NUMBER TOTAL ON TIME (HOURS) TOTAL HEAT CYCLE COUNT TOTAL ENERGY SAVING TIME TOTAL COOK TIME 	3. Press the back button to return to menu or the home button to exit.

1.13.4 Usage Statistics

The usage statistics displays total cook cycles per vat, number of cook cycles per vat, number of cook cycles exited prior to completion, the number of hours the vat(s) have been on and the date of last usage reset.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
7	2. Press the Usage Stats button.
 USAGE START DATE TOTAL NUMBER OF COOK CYCLES TOTAL NUMBER OF QUIT COOK CYCLES TOTAL VAT ON TIME (HOURS) 	3. Press the back button to return to menu or the home button to exit.

1.13.5 Recovery Time

Recovery is used to determine if the fryer is operating correctly. Recovery is the time required for the fryer to raise the temperature of the oil 50°F (28°C) between 250°F (121°C) and 300°F (149°C). Maximum recovery time should not exceed 1:40 for electric or 3:15 for gas.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
	2. Press the Recovery button. The time is displayed in minutes and seconds.
1. LAST RECOVERY TIME	3. Press the back button to return to menu or the home button to exit.

1.13.6 Filter Statistics

The filter statistics function is used to view the number of cooks remaining until the next filter, the number of cooks per vat, the number of filters per vat, the number of skipped or bypassed filters per vat and the average number of cook cycles per filter per day.

DISPLAY		ACTION
?	1.	Press the Home button and then the Information button.
	2.	Press the Filter button.
□ DAY 1 □ DAY 2 □ DAY 3 □ DAY 4	3.	Select and press the desired day. Press the down arrow to scroll back additional days.
DAY AND DATE (Day and date of filter statistics displayed) COOKS REMAINING UNTIL NEXT FILTER (Number of times cooks that remain until the next filter prompt.) DAILY NUMBER OF COOKS (Number of cooks that day) DAILY NUMBER OF FILTERS (Number of times vat filtered that day.)	4.	Press the down arrow to scroll to more statistics.
DAILY NUMBER OF SKIPPED FILTERS (Number of times filter was bypassed that day.) AVERAGE COOKS PER FILTER - (Average number of cook cycles per filter that day.)	5.	Press the up arrow to scroll up or the back button to return to select another day.

	DISPLAY		ACTION
7.	WEEKLY NUMBER OF FILTERS - (Number of times		
	vat filtered in the past week.)		
8.	WEEKLY NUMBER OF SKIPPED FILTERS (Number		
	of times filters were bypassed in the past week.)		
	\bigcirc		
9.	FILTRATION - (Displays if filtration is enabled or		
	disabled. Diagnostic tool to determine status of FIB		
	board.)		
		6.	Press the back button to return to menu or the home button to exit.

1.13.7 Software Version

The software version function provides the software versions of the controller and circuit boards in the fryer system; the values of the temperature probe; the values of the AIF RTD probe and the ATO RTD probe and information on any attached gateway.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
Ţ.	2. Press the down arrow button.
	3. Press Software Version button.
INITIALIZING	4. No action needed.
 UIB SOFTWARE VERSION SIB SOFTWARE VERSION VIB SOFTWARE VERSION FIB SOFTWARE VERSION 	 Press the down arrow to scroll to additional software versions and probe temperatures. NOTE: Split vats will have an SIB2 and left and right vat, AIF, and ATO temperatures.
 5. OQS SOFTWARE VERSION 6. ACTUAL VAT TEMP 7. AIF RTD TEMP 8. ATO RTD TEMP 9. BOARD ID 10. GATEWAY SOFTWARE VERSION 	6. Press the down arrow to scroll to additional software versions and information.7. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

DISPLAY	ACTION
11. GATEWAY IP ADDRESS	
12. GATEWAY LINK QUALITY	
13. GATEWAY SIGNAL STRENGTH	
AND NOISE	

1.13.8 Usage Reset Statistics

The reset function resets all usage data in the usage statistics.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
Ţ.	2. Press the down arrow button.
· ·	3. Press Usage Reset button.
1656	4. Enter 1656
	5. Press the √ (check) button.
ALL USAGE DATA HAS BEEN RESET	6. Press the √ (check) button.
	7. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

1.13.9 Fresh Oil Statistics

The fresh oil statistics function is used to view information on the current fresh oil.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
Ū.	2. Press the down arrow button.
	3. Press the Fresh Oil button.
1. NUMBER OF COOKS SINCE LAST DISPOSE	
2. DISPOSE COUNT COOKS SINCE LAST RESET	4. Press the back button to return to menu or the home button to exit.
3. FRESH OIL COUNTER RESET DATE4. FRESH OIL COUNTER	

DISPLAY	ACTION

1.13.10 Fresh Oil Reset Usage Statistics

The reset function resets all fresh oil data in the fresh oil statistics.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
Ţ.	2. Press the down arrow button.
· ·	3. Press Fresh Oil Reset button.
1656	4. Enter 1656
	5. Press the √ (check) button.
FRESH OIL DATA HAS BEEN RESET	6. Press the √ (check) button.
	7. Press the back button to return to menu or the home button to exit.

1.13.11 Last Load Statistics

The last load statistics provides data for the last cook cycle.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
	2. Press the Last Load button.
1. LAST COOKED PRODUCT	
2. LAST LOAD START TIME	
3. LAST LOAD COOK TIME	
4. LAST LOAD PROGRAM TIME	
	3. Press the down arrow to scroll to more statistics.
5. LAST LOAD MAX VAT TEMP	
6. LAST LOAD MIN VAT TEMP	4. Press the down arrow to scroll to more statistics.
7. LAST LOAD AVG VAT TEMP	4. Press the down arrow to scroll to more statistics.
8. % OF COOK TIME, HEAT IS ON	

DISPLAY	ACTION
₽	
9. VAT TEMP BEFORE COOK STARTS	
10.VAT TEMP AT COOK END	
	5. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

1.13.12 TPM (Total Polar Material) Statistics

The TPM statistics provides data from the OQS (Oil Quality Sensor). The same data can be accessed by pressing the TPM button on the front of the controller when the TPM button is solid.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
\bigcirc	3. Press the down arrow.
	4. Press the TPM Statistics button. The TPM values for the previous valid thirty (30) days are listed.
	5. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

1.13.13 Filter Reset Statistics

The reset function resets all filter statistics.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
Ţ.	2. Press the down arrow button two (2) times.
· ·	3. Press Filter Reset button.
1656	4. Enter 1656
	5. Press the √ (check) button.
CONFIRM? YES NO	6.
FILTER RESET HAS BEEN DONE	
	7. Press the √ (check) button.

DISPLAY	ACTION
	8. Press the back button to return to menu or the
< ¬ %	home button to exit

CHAPTER 2: FILTERQUICK™ FQ4000 FILTRATION MENU FUNCTIONS INSTRUCTIONS

2.1 Filtration Menu

The filtration menu selections are used for filtering, draining, filling, disposing and cleaning the vats.

2.1.1 Quick Filter - Filter Prompt

Quick Filter is a feature that, after a number of preset cook cycles or time, will automatically prompt to filter the frypots. This function can also be performed on demand as well and is covered in the next section. **Note**: Simultaneous filtering of multiple vats does not occur.

FILTER NOW? OIL LEVEL TOO LOW SKIM DEBRIS FROM VAT START FILTRATION	 highlighted in yellow in the filter menu. On the second bypass, the filtration button changes to red. The controller will prompt again soon to filter the oil. This sequence repeats until a filter is completed. Pressing the filter button when the color has changed will allow a filter to be started. 2. Displayed if the oil level is too low. Press the √ (check - YES) button to acknowledge issue and return to idle cook mode. Check to see if the JIB is low on oil. If JIB is not low and this continues to occur, contact your FAS. 3. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat. This is critical to optimizing usable oil life and quality in the oil. Press the √ (check- YES) button when complete. Press the X button to cancel the filter. 4. Press the BLUE button to start filtration or the X button to cancel the filter.
DRAINING	5. No action required.
FLUSHING	6. No action required.
I LOSI III NO	o. No action required.
ALERT DRAIN CLOSING REMOVE TOOLS	7. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
ALERT DRAIN CLOSING	7. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury. 8. No action required.
ALERT DRAIN CLOSING REMOVE TOOLS	7. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.

The complete filtering process takes approximately four minutes with a clean filter.

NOTE: If the filter pan is removed during filtration, the filtration process stops and resumes once pan is reseated into place.

Should the quick filtration procedure fail or if <u>ALL</u> the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. In some cases, an error message may be generated. Follow the instructions on the controller to clear the error, complete the filter and return <u>ALL</u> the oil.

A DANGER

Keep all items out of drains. Closing actuators may cause damage or injury.

2.1.2 Quick Filter on Demand

Quick Filter on demand filtration is used to manually start a quick filter. **Note**: Simultaneous filtering of multiple vats cannot occur.

DISPLAY	ACTION
CHECKEN FINES CHECKEN FINES SATIS CHECKEN STRES CHECKEN	The fryer MUST be at setpoint temperature. Press the filtration menu button. The filtration button is yellow if a bypass has occurred. If the filtration button is red, more than one bypass has occurred.
	2. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION GUICK FILTER GLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS CSSY TOUCH	3. Select QUICK FILTER. QUICK FILTER is highlighted in yellow in the filter menu if a bypass has occurred.
QUICK FILTER NOW?	4. Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled, and the fryer resumes normal operation. The filtration button changes to yellow on the first bypass and the QUICK FILTER is highlighted in yellow in the filter menu. On the second bypass, the filtration button changes to red. The controller will prompt again soon to filter the oil. This sequence repeats until a filter is completed. Pressing the filter button when the color has changed will allow a filter to be started.
OIL LEVEL TOO LOW	5. Displayed if the oil level is too low. Press the √ (check - YES) button to acknowledge issue and return to idle cook mode. Check to see if the JIB is low on oil. If JIB is not low and this continues to occur, contact your FAS.
SKIM DEBRIS FROM VAT	6. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as

DISPLAY	ACTION
	possible from each vat. This is critical to optimizing usable oil life and quality in the oil. Press the √ (check-YES) button when complete. Press the X button to cancel the filter.
START FILTRATION	7. Press the BLUE button to start filtration or the X button to cancel the filter.
DRAINING	8. No action required as oil drains into filter pan.
FLUSHING	9. No action required as debris is flushed from the vat.
ALERT DRAIN CLOSING REMOVE	10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.
TOOLS	⚠ DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
	Keep all items out of drains. Closing actuators may
TOOLS	Keep all items out of drains. Closing actuators may cause damage or injury.

The complete filtering process takes approximately four minutes with a clean filter.

NOTE: If the filter pan is removed during filtration, the filtration process stops and resumes once pan is reseated into place.

Should the quick filtration procedure fail or if <u>ALL</u> the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. In some cases, an error message may be generated. Follow the instructions on the controller to clear the error, complete the filter and return <u>ALL</u> the oil.

When FILTER BUSY is displayed, the system is waiting on another vat to be filtered or waiting on another issue to clear. Press the $\sqrt{\text{check - YES}}$ button and wait 15 minutes to see if problem is corrected. If not, call your local FAS.

▲ DANGER

Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

MARNING

The filter motor is equipped with a manual reset switch in case the filter motor overheats or an electrical fault occurs. If this switch trips, turn off power to the filter system and allow the pump motor to cool 20 minutes before attempting to reset the switch (see photo below).

MARNING

Use caution and wear appropriate safety equipment when resetting the filter motor reset switch. Resetting the switch must be accomplished with care to avoid the possibility of a serious burn from careless maneuvering around the drain tube and frypot.



Filter Motor Reset Switch

2.1.3 Clean and Filter (with OQS [if installed]) (or End of Day Filter)

The clean and filter operation is an extended filtration with additional prompts to thoroughly clean the vat. This typically is done once a day or at the end of the day. Ensure that the filter pad or paper is replaced daily to keep the system operating correctly. For proper operation in high volume or 24-hour stores, the filter pad or paper must be changed twice a day.

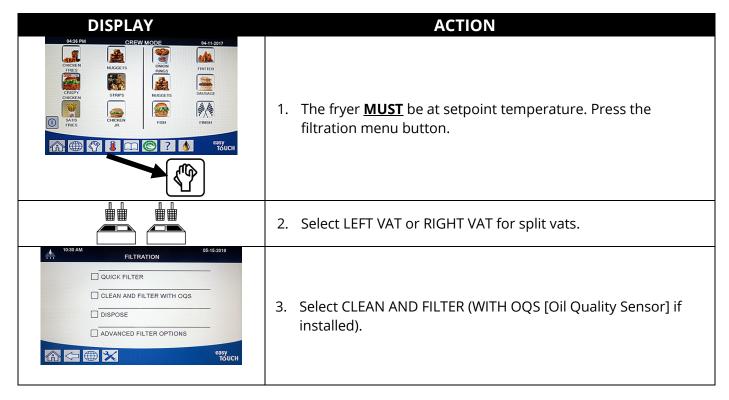
If CLOSE DISPOSE VALVE is displayed, close the dispose valve. Press the X (NO) button to exit.

NOTICE

The filter pad or paper must be replaced daily.

⚠ WARNING

Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.



DISPLAY	ACTION
CLEAN NOW?	 Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled and the fryer resumes normal operation.
SKIM DEBRIS FROM VAT -	5. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat. This is critical to optimizing usable oil life and quality of the oil. Press the √ (check - YES) button when complete. Press the X button to cancel the filter.
WEAR PROTECTIVE GLOVES -	 Press the √ (check - YES) button once all personal protection equipment including heat resistant gloves are in place. Press the X button to cancel the filter.
START FILTRATION	7. Press the BLUE button to start filtration or the X button to cancel the filter.
DRAINING	8. No action required as oil drains into filter pan.
SCRUB INSIDE VAT – PRESS YES WHEN COMPLETE	 Scrub the vat. Press the √ (check - YES) button when complete. DANGER Keep all items out of drains. Closing actuators may
	cause damage or injury.
FLUSHING	10. No action required while the return valve opens and the vat is flushed with oil from the filter pan.
FLUSH AGAIN?	11. The filter pump shuts off. If the vat is clean of debris, press the X (NO) button to continue. If crumbs are still present, press the √ (check - YES) button and the filter pump runs again. This cycle repeats until the X (NO) button is pressed.
ALERT DRAIN CLOSING REMOVE TOOLS	12. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may
	cause damage or injury.
RINSING IN PROGRESS	13. No action required while the drain valve closes and the filter pump refills the vat. The drain valve opens and rinses the vat.
RINSE AGAIN?	14. If the vat is clean of debris, press the X (NO) button to continue. If an additional rinse is desired, press the √ (check - YES) button and the rinse repeats until the X (NO) button is pressed.
POLISHING	15. No action required while the drain and return valves are open and oil is pumped through the frypot for five minutes.

DISPLAY	ACTION
ALERT DRAIN CLOSING REMOVE TOOLS	16. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
FILLING	17. No action required while the vat is refilled. If an OQS sensor is installed proceed to next step, otherwise proceed to step 24.
MEASURING OIL QUALITY	18. No action required while the OQS sensor calculates the oil quality value of the oil.
FILLING	19. No action required while the vat is refilled.
11.6 21.1 28.3	20. If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW and DISCARD SOON limits, the TPM value is shown in the green TPM box in lower right corner. Proceed to step 24. If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW but above DISCARD SOON limits, the TPM value is shown in the orange TPM box in lower right corner. Proceed to DISCARD SOON in step 21. If OQS = Text and if TPM reading is above OQS SETUP – DISCARD NOW limits; the TPM value is shown in the red TPM box in lower right corner. Proceed to DISCARD NOW in step 23. If OQS = Number proceed to TPM - XX in step 22.
DISCARD SOON	21. Press the √ (check -YES) button to continue. Skip to step 24
TPM - XX	22. Press the √ (check - YES) button to continue. If the TPM reading is above OQS SETUP – DISCARD limits, proceed to step 23, otherwise proceed to step 24.
DISCARD NOW	23. Press the √ (check -YES) button to continue. Proceed to DISPOSE in section 2.1.5/6. Press X (NO) to delay the DISPOSE.
IS FRYPOT FULL OF OIL?	24. Press the X (NO) button to run the pump again if the oil level is below the top oil level full line. * Press the √ (check - YES) button once the oil level is at the top oil level full line. If the vat oil level is not completely filled, check the filter pan to see if most of the oil has returned. The pan may have a small amount of oil.
	25. The controller switches off.

*NOTE: After a clean and filter it is normal to leave some oil in the pan and the level of oil may not return to the level prior to starting clean and filter. Answering YES after two attempts at refilling the vat enables auto top off, if available, to compensate for any loss of oil during filtration.

2.1.4 OQS (Oil Quality Sensor) Filter

The OQS filter is a function that filters the vat that takes an oil reading to test the TPM (Total Polar Materials) in the oil using the built in OQS sensor. This function is used to determine when the oil has reached the end of its life and when to dispose. Ensure that the filter pad or paper is replaced daily to keep the system operating correctly. For proper operation in high volume or 24hour stores, the filter pad or paper must be changed twice a day.

If CLOSE DISPOSE VALVE is displayed, close the dispose valve. Press the X (NO) button to exit.

NOTICE

The filter pad or paper must be replaced daily.

WARNING

Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

valve. Press the X (NO) button to exit.	
DISPLAY	ACTION
ALL RECIPES OS-17-2018 OS-17	The fryer MUST be at setpoint temperature. Press the filtration menu button or if the TPM button is blinking, press the TPM button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION GS-15-2018 FILTRATION QUICK FILTER CLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS Casy Touch	3. Select ADVANCED FILTER OPTIONS.
FILTRATION GS-15-2018 GOS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE Casy Touch	4. Select OQS (Oil Quality Sensor) - FILTER.
OQS – FILTER NOW?	5. Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled and the fryer resumes normal operation.
OIL LEVEL TOO LOW	6. Displayed if the oil level is too low. Press the √ (check - YES) button to acknowledge issue and return to idle cook mode. Check to see if the JIB is low on oil. If JIB is not low and this continues to occur, contact your FAS.
SKIM DEBRIS FROM VAT	7. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat. This is critical to optimizing usable oil life and quality of the oil. Press the √ (check- YES) button when complete. Press the X button to cancel the filter.

DISPLAY	ACTION
START FILTRATION	8. Press the BLUE button to start filtration or the X button to cancel the filter.
DRAINING	9. No action required as oil drains into filter pan.
FLUSHING	10. No action required while the return valve opens and the vat is flushed with oil from the filter pan.
ALERT DRAIN CLOSING REMOVE TOOLS	11. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
FILLING	12. No action required while the vat is refilled.
MEASURING OIL QUALITY	13. No action required while the OQS sensor calculates the oil quality value of the oil.
FILLING	14. No action required while the vat is refilled.
11.6 21.1 28.3 DISCARD SOON	 15. If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW and DISCARD SOON limits, the TPM value is shown in the green TPM box in lower right corner. Proceed to step 20. If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW but above DISCARD SOON limits, the TPM value is shown in the orange TPM box in lower right corner. Proceed to DISCARD SOON in step 16. If OQS = Text and if TPM reading is above OQS SETUP – DISCARD NOW limits; the TPM value is shown in the red TPM box in lower right corner. Proceed to DISCARD NOW in step 18. If OQS = Number proceed to TPM - XX in step 17. 16. Press the √ (check -YES) button to continue. Skip to step 20
TPM - XX	17. Press the √ (check - YES) button to continue. If the TPM reading is above OQS SETUP – DISCARD limits, proceed to step 18, otherwise proceed to step 20.
DISCARD NOW	18. Press the √ (check -YES) button to continue. Proceed to DISPOSE in section 2.1.5/6. Press X (NO) to delay the DISPOSE.
PREHEAT	19. No action required as the fryer heats to setpoint.
CHOCKEN FIRST FI	20. Fryer is ready for use. Displayed once fryer reaches setpoint.

NOTE: If the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function.

2.1.5 Dispose for Non-Bulk Oil Systems

This option is used to dispose of old oil into either a SDU or a **METAL** container.

When cooking oil is exhausted, dispose the oil into an appropriate container for transport to the waste oil container. Frymaster recommends a Shortening Disposal Unit (SDU). Refer to the documentation furnished with your disposal unit for specific operating instructions. **NOTE:** If using an SDU built before January 2004, the unit will not fit under the drain. If a shortening disposal unit is not available, allow the oil to cool to 100°F (38°C), then drain the oil into a **METAL** container with a capacity of FOUR gallons (15 liters) or larger to prevent oil from spilling.

DISPLAY	ACTION
CREW MODE OHIOTO OHI	1. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION GUICK FILTER GLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS CASY TOUCH	3. Select DISPOSE
DISPOSE NOW?	4. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the previous state. DANGER Allow oil to cool to 100°F (38°C) before draining into an appropriate METAL container for disposal.
REMOVE FILTER PAN	5. Carefully remove the filter pan from the fryer. A DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	6. If the filter pan is empty press the √ (check - YES) button. If the pan is not empty, press the X (NO) button and return to previous state and use the FILL VAT FROM PAN function to return the oil to the vat.

DISDLAY	ACTION
DISPLAY INSERT DISPOSAL UNIT	ACTION
INSERT DISPOSAL UNIT	7. Carefully remove the filter pan from the fryer and insert the
	disposal unit.
	<u></u> DANGER
	Remove the filter pan slowly to avoid splashing of hot
	oil that may cause severe burns, slipping and falling.
	<u> </u>
O TOTAL STATE OF THE PARTY OF T	When draining oil into a disposal unit, do not fill above
	the maximum fill line located on the container.
	8. Ensure the SDU or a METAL container with a capacity of
	FOUR gallons (15 liters) or larger is in place. Press the √
	(check - YES) button to continue.
	⚠ DANGER
	Allow oil to cool to 100°F (38°C) before draining into an
IS DISPOSE UNIT IN PLACE?	appropriate METAL container for disposal.
	⚠ DANGER
	When draining oil into an appropriate SDU or METAL
	container, make sure the container will hold at least
	FOUR gallons (15 liters) or more. Otherwise oil could
	overflow and can cause injury.
START DISPOSE	9. Press the BLUE button to start filtration or the X button to
	cancel the dispose.
DISPOSING	10. No action is required while the vat disposes the oil.
DISPOSING	11. Once the frypot is empty, press the √ (check - YES) button to
IS FRYPOT EMPTY?	continue.
	12. Clean the frypot with a scrub brush and when complete
SCRUB FRYPOT COMPLETE?	press the √ (check - YES) button to continue.
	13. Ensure that all tools are removed from the frypot prior to
	the drain closing to prevent damage to the drain.
ALERT DRAIN CLOSING REMOVE	⚠ DANGER
TOOLS	Keep all items out of drains. Closing actuators may
	cause damage or injury.
	If using a JIB fresh oil system skip to step 18. If using a bulk
	fresh oil system type, continue to next step.
FILL VAT FROM BULK?	14. Press the √ (check - YES) button to continue. If the X (NO)
	button is selected, the user returns to the filtration menu.
START FILLING?	15. Press and hold the button to fill the vat. The bulk oil refill
PRESS AND HOLD	pump uses a momentary switch. It only pumps if the switch
	is depressed.
RELEASE BUTTON WHEN FULL	16. Release the button when the vat is filled to the lower fill line.
	17. Press the √ (check - YES) button to continue filling. Otherwise
CONTINUE FILLING?	press the X (NO) button once the vat is full, to exit and skip
Common Medical Common C	to step 19.
	'

DISPLAY	ACTION
REMOVE DISPOSAL UNIT?	18. Remove the disposal unit and press the √ (check - YES)
TREIVIO VE BISI OS/RE OTTIT.	button to continue.
INSERT FILTER PAN	19. Insert the clean and assembled filter pan into place.
MANUALLY FILL VAT	20. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.
	21. The controller switches off. Reinsert the filter pan.

2.1.6 Dispose for Bulk, Wand Front, and Wand External Dispose Waste Oil Systems

This option is used to dispose of exhausted oil into a bulk waste oil system. Bulk oil systems use a pump to move exhausted oil from the fryer to a holding tank. Additional plumbing is used to connect the bulk oil systems to the fryers. Wand Front Dispose systems use a wand, that is connected to the front of the fryer, to pump the oil into a

MARNING

Ensure filter paper or pad is in place prior to draining or disposing of oil. Failure to insert filter paper or pad may result in clogged lines and/or pumps.

disposal container. Wand External Dispose systems use a wand, with an external pump, that pumps the oil from the frypot.

DISPLAY	ACTION
CHECKEN NUGGETS OND STREET ONE FREET ONE	1. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION G-16-2018 GUICK FILTER CLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS Casy Touch	3. Select DISPOSE. If disposing to bulk proceed to the next step. If using a front dispose (Wand Front) system, skip to step 5. If using an external wand system to pump the oil from the fryer, skip to step 6.
DISPOSE NOW?	4. Press the √ (check - YES) button to continue and skip to step8. If the X (NO) button is selected, the user returns to the previous state.
IS DISPOSE FROM FILTER PAN WITH WAND?	 Press the √ (check - YES) button to continue and skip to step If the X (NO) button is selected, the user returns to the previous state.
IS DISPOSE FROM FRYPOT WITH WAND?	6. Press the √ (check - YES) button to continue and skip to step7. If the X (NO) button is selected, the user returns to the previous state.

DISPLAY	ACTION
IS WAND DISPOSAL SYSTEM IN PLACE?	7. Ensure the external wand disposal system is in place and press the √ (check - YES) button to continue and skip to step 11.
REMOVE FILTER PAN	8. Remove the filter pan.
IS FILTER PAN EMPTY?	9. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. The clean function is cancelled and returns to the filtration menu. Remove the oil from the pan and after inserting the filter pan, retry the function. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
INSERT FILTER PAN	10. Push the filter pan fully into place and continue to next step. Displayed if the filter pan is not fully engaged.
START DISPOSE	11. Press the BLUE button to start filtration or the X button to cancel the dispose. If using an external wand skip to step 23.
BULK TANK FULL?	12. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.
INSERT FILTER PAN	13. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
DRAINING	14. No action required as oil drains into filter pan.
IS FRYPOT EMPTY?	15. Once the frypot is empty, press the √ (check - YES) button to continue.
SCRUB FRYPOT COMPLETE?	16. Clean the frypot with a scrub brush and when complete press the √ (check - YES) button to continue.
ALERT DRAIN CLOSING REMOVE TOOLS	17. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. If using front dispose (Wand Front) proceed to the next step. If disposing to bulk skip to step 24. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
POSITION DISPOSAL UNIT	18. Position the disposal unit in front of the fryer and press the √ (check - YES) button to continue.

19. Attach the dispose wand by pulling back on the female end IS DISPOSE WAND AND DISPOSAL collar and pushing firmly onto the male disconnect. Once in UNIT IN PLACE? place, release the disconnect and ensure that the quick disconnect is fully locked into place. Ensure the disposal unit is in place in front of the fryer and press the √ (check - YES) button to continue. 🗘 DANGER When draining oil into an appropriate METAL container, make sure the container will hold at least FOUR gallons (15 liters) or more, otherwise hot liquid could overflow and cause injury. **OPEN DISPOSE VALVE** PRESS AND HOLD THE FRONT WAND SWITCH 20. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal. If using front dispose continue to next step. 21. Ensure the wand is in place prior to pressing and holding the dispose switch to start disposing. **DISPOSING RELEASE WAND SWITCH AND** 22. The oil transfers from the filter pan to the disposal unit. CLOSE DISPOSE VALVE WHEN FULL When the pan is empty, release the switch to stop the pump. Close the dispose valve when full by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager. Skip to step 27. 23. Use the external wand to pump oil from the frypot to the USE WAND TO EXTRACT OIL FROM disposal unit. Press √ (check - YES) button when complete **FRYPOT** and proceed to the next step.

OPEN DISPOSE VALVE	24. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal and continue to next step.
DISPOSING	25. No action is required while the pump transfers the waste oil from the pan to the waste container. If disposing to bulk proceed to step 27. If using an external wand to pump oil from the frypot proceed to the next step.
IS FRYPOT EMPTY?	26. Once the frypot is empty, press √ (check - YES) button when complete and proceed to the next step.
	27. Carefully pull the filter pan from the fryer.
REMOVE FILTER PAN	⚠ DANGER Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	28. If the filter pan is empty press the √ (check - YES) button. If using front wand dispose continue to step 31. If disposing to bulk skip to step 34. If disposing to external wand skip to step 30. If the pan is not empty, press the X (NO) button; return to step 20 for front dispose; step 24 for bulk; or step 30 for external wand. If the filter pan is not empty and using an external wand continue to next step.
USE WAND TO EXTRACT OIL FROM THE FILTER PAN	29. Use the external wand to pump oil from the filter pan to the disposal unit. Press √ (check - YES) button when complete and proceed to the next step.
REMOVE WAND DISPOSAL SYSTEM	30. Remove the external wand disposal system and skip to next step.
CLEAN FILTER PAN?	31. Clean the filter pan and press √ (check - YES) button when complete and skip to step 33. If using an external wand, proceed to next step.
SCRUB FRYPOT COMPLETE?	32. Clean the frypot with a scrub brush and when complete press the √ (check - YES) button to continue.
IS FILTER PAN DRY?	33. Dry the filter pan and press √ (check - YES) button when complete.
INSERT FILTER PAN	34. Insert the filter pan. If using front wand dispose continue to next step. If disposing to bulk skip to step 36. If using an external wand skip to step 41.
REMOVE DISPOSAL UNIT AND DETACH WAND	35. Disconnect the disposal wand and remove the disposal unit and press √ (check - YES) button when complete. If using a JIB fresh oil system skip to step 41. If using a bulk fresh oil system type, skip to step 37.

CLOSE DISPOSE VALVE	36. Close the dispose valve by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager. If using a JIB fresh oil system skip to step 41. If using a bulk fresh oil system type, continue to next step.
FILL VAT FROM BULK?	37. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu.
START FILLING? PRESS AND HOLD	38. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps if the switch is depressed.
RELEASE BUTTON WHEN FULL	39. Release the button when the vat is filled to the lower fill line.
CONTINUE FILLING?	40. Press the √ (check - YES) button to continue filling. Otherwise press the X (NO) button once the vat is full, to skip to step 42.
MANUALLY FILL VAT	41. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.
	42. The controller switches off.

2.1.7 Fill Vat from (Filter) PanThe fill vat from pan function fills the vat from the filter pan.

DISPLAY	ACTION
<u>(1)</u>	1. The fryer <u>MUST</u> be OFF.
	2. Press the filtration menu button
	3. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION GUICK FILTER GLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS Casy TOUCH	4. Select ADVANCED FILTER OPTIONS.
FILTRATION OS-15-2018 OQS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE Casy Touch	5. Select FILL VAT FROM PAN. If no pan is detected, the controller displays INSERT PAN until the pan is detected.

DISPLAY	ACTION
FILL FROM PAN?	6. Press the √ (check - YES) button to continue. If the X (NO)
FILL FROM FAIN:	button is selected, the controller goes to OFF.
FILLING	7. No action is required while the vat is filling.
IS FRYPOT FULL OF OIL?	8. Press the X (NO) button to run the pump again if the oil level is below the top oil level full line. Press the √ (check - YES) button once the oil level is at the top oil level full line. If the
IS PRITO FOLL OF OIL:	vat oil level is not completely filled, check the filter pan to see if most of the oil has returned. The pan may have a small amount of oil.
<u>(1)</u>	9. The controller switches off.

2.1.8 Fill Vat from Bulk

The fill vat from bulk function is used to fill the vat from a bulk oil fresh source.

DISPLAY	ACTION
	1. The fryer <u>MUST</u> be OFF.
	2. Press the filtration menu button
	3. Select LEFT VAT or RIGHT VAT for split vats.
OS-15-2018 FILTRATION QUICK FILTER CLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS CASY TOUCH	4. Select ADVANCED FILTER OPTIONS.
FILTRATION 05-15-2018 OOS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE Case Say Case Control Contr	5. Select FILL VAT FROM BULK.
FILL VAT FROM BULK?	6. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the controller goes to OFF.
START FILLING? PRESS AND HOLD	7. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps if the switch is depressed.
RELEASE BUTTON WHEN FULL	8. Release the button when the vat is filled to the lower fill line.
CONTINUE FILLING?	 Press the √ (check - YES) button to continue filling. Otherwise press the X (NO) button once the vat is full to exit and return to OFF.

DISPLAY	ACTION
	10. The controller switches off.

2.1.9 Pan to Waste (Bulk Only)

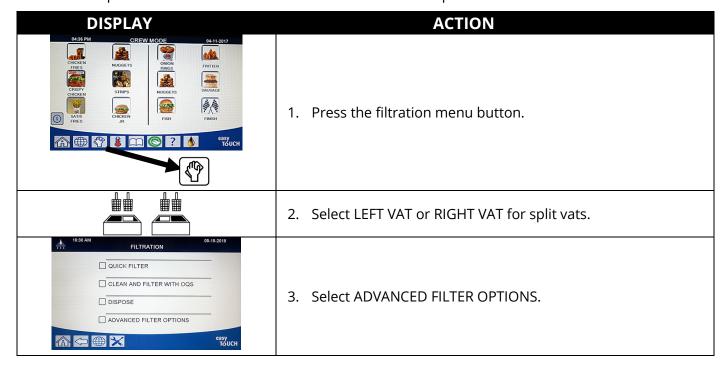
The pan to waste function is an option that allows bulk oil systems to pump excess oil in the pan, to the bulk oil waste tanks, without draining the existing oil in the vat.

bulk oil waste tanks, without draining the existing oil in the vat.		
DISPLAY	ACTION	
CHECKEN NUCCETS CHECKEN NUCCETS CHECKEN NUCCETS CHECKEN NUCCETS CHECKEN NUCCETS NUCCET	1. Press the filtration menu button	
	2. Select LEFT VAT or RIGHT VAT for split vats.	
FILTRATION GUICK FILTER GLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS Casy Touch	3. Select ADVANCED FILTER OPTIONS.	
10-32 AM FILTRATION OQS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE COSTY TOUCH	4. Select PAN TO WASTE.	
PAN TO WASTE?	5. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the previous state. If no pan is detected, the controller displays INSERT PAN until the pan is detected.	
BULK TANK FULL?	6. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to previous state.	
OPEN DISPOSE VALVE	7. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal.	

DISPLAY	ACTION
DISPOSING	8. No action is required while the pump transfers the waste oil from the pan to the bulk oil waste tanks for four (4) minutes.
REMOVE PAN	9. Carefully pull the filter pan from the fryer. DANGER Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS PAN EMPTY?	10. If the filter pan is empty press the √ (check - YES) button. If the pan is not empty, press the X (NO) button and return to step 8.
INSERT PAN	11. Insert the filter pan.
CLOSE DISPOSE VALVE	12. Close the dispose valve by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager.
CREW MODE O4-11-2017 O4-11-2	13. The controller returns to the starting state.

2.1.10 Drain to Pan

The drain to pan function drains the oil from the vat to the filter pan.



DISPLAY	ACTION
DISPLAT 1932 AM FILTRATION 05-15-2018	ACTION
OQS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE Casy Touch	4. Press the down arrow.
DRAIN TO PAN CLEAN POLISH Casy Touch	5. Select DRAIN TO PAN.
DRAIN NOW?	6. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the controller goes to OFF.
START DRAINING	7. Press the BLUE button to start draining or the X button to cancel the function.
DRAINING	8. No action is required while the vat drains the oil into the filter pan.
VAT EMPTY?	9. Once the vat is empty, press the √ (check - YES) button to continue.
ALERT DRAIN CLOSING REMOVE TOOLS	10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
FILL FROM PAN?	11. Press the √ (check - YES) button to refill the vat, otherwise skip to step 14.
FILLING	12. No action is required while the vat is filling.
IS FRYPOT FULL OF OIL?	13. Press the X (NO) button to run the pump again if the oil level is below the top oil level full line. Press the √ (check - YES) button once the oil level is at the top oil level full line and skip to step 17. If the vat oil level is not completely filled, check the filter pan to see if most of the oil has returned. The pan may have a small amount of oil.
REMOVE PAN	14. Carefully pull the filter pan from the fryer. DANGER Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS PAN EMPTY?	15. If the filter pan is empty press the √ (check - YES) button. If the pan is not empty, press the X (NO) button and return to step 11.
INSERT PAN	16. Insert the filter pan.

DISPLAY	ACTION
	17. The controller switches off.

2.1.11 Clean (Boil-Out [Hot] or Cold Clean) for Non-Bulk Oil Systems

The clean mode is used to remove carbonized oil from the frypot. The type of clean (hot or cold) will depend on the manager settings - filter attributes - clean settings (see section 1.8).

	attributes - clean settings (see section 1.0).
DISPLAY O4-96 PM CREW MODE 04-11-0017	ACTION
CREW MODE CHURCH NAGGETS CHOCKEN STRP'S CHOCKEN PERS CHOCKEN FIRST FIRST FIRST FIRST CREW MODE CHOCKEN CHOCKEN FIRST FIRST FIRST FIRST FIRST CREW MODE CHOCKEN FIRST FIRST FIRST FIRST CREW MODE CHOCKEN FIRST FIRST FIRST CREW MODE CHOCKEN FIRST FIRST FIRST FIRST FIRST FIRST CREW MODE CHOCKEN FIRST FIRS FIRST FIRS FIRST FIRS FIRST FIRST	1. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
OS-15-2018 FILTRATION QUICK FILTER CLEAN AND FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS Casy Touch 1032 AM 05-15-2018	3. Select ADVANCED FILTER OPTIONS.
FILTRATION OQS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE Casy TOUCH	4. Press the down arrow.
10:30 AM FILTRATION DRAIN TO PAN CLEAN POLISH Casy Touch	5. Select CLEAN.
COLD CLEAN NOW? or BOIL OUT NOW?	6. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
SAVING OIL?	7. Press the √ (check - YES) button if saving the oil and the oil is to be reused skip to step 9. If the X (NO) button is selected, continue to next step.

DISPLAY	ACTION
	8. If the oil has already been disposed and the frypot is empty,
IS OIL DISPOSED?	press the √ (check - YES) button. If the oil has not been
	disposed press the X (NO) button.
	9. Carefully pull the filter pan from the fryer. If the oil is not
	being saved, skip to step 16.
REMOVE FILTER PAN	<u> </u>
	Remove the filter pan slowly to avoid splashing of hot
	oil that may cause severe burns, slipping and falling.
	10. If the oil IS NOT being saved and the filter pan is empty
IC FILTED DANI FAADTAG	press the √ (check - YES) button and skip to step 24. If the oil
IS FILTER PAN EMPTY?	IS being saved and the filter pan is empty, press the √ (check
	- YES) button and continue to next step. Press the X (NO) button if oil is in the filter pan and continue to step 15.
INSERT FILTER PAN	11. Insert the filter pan and continue to next step.
	12. No action is required while the vat drains the oil into the
DRAINING	filter pan.
IS FRYPOT EMPTY?	13. Press the √ (check - YES) button when the frypot is empty to
IS FRYPOT EMPTY?	continue.
	14. Carefully pull the filter pan from the fryer and set aside and
	skip to step 24.
REMOVE FILTER PAN	<u></u> DANGER
	Remove the filter pan slowly to avoid splashing of hot
	oil that may cause severe burns, slipping and falling.
	15. Press the √ (check - YES) button and skip to step 48. Dispose
EMPTY FILTER PAN AND START	of the oil in the filter pan by using the fill vat from pan
CLEAN AGAIN	option and then the dispose option. Once finished start the
INICEDE DISPOSAL LINUT	clean function again.
INSERT DISPOSAL UNIT	16. Insert the disposal unit.
	<u></u> DANGER
	Ensure a SDU (Shortening Disposal Unit) or suitable
	METAL container is in place under the drain with a
	capacity of FOUR (4) gallons (15 liters) or more.
	Otherwise oil could overflow and can cause injury.
	17. Ensure the SDU or a METAL container with a capacity of
	FOUR gallons (15 liters) or larger is in place. Press the √
IS DISPOSE UNIT IN PLACE?	(check - YES) button to continue.
	<u></u> DANGER
	Allow oil to cool to 100°F (38°C) before draining into an
	appropriate METAL container for disposal.
	⚠ DANGER
	When draining oil into a disposal unit, do not fill above
	the maximum fill line located on the container.
	18. No action is required while the vat drains the oil into the
DRAINING	disposal container.

DISPLAY	ACTION
IS FRYPOT EMPTY?	19. Press the √ (check - YES) button when the frypot is empty to continue.
ALERT DRAIN CLOSING REMOVE TOOLS	20. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
REMOVE DISPOSAL UNIT?	21. Remove the disposal unit and press the √ (check - YES) button.
IS FILTER PAN EMPTY?	22. Press the √ (check - YES) button if the filter pan is empty and skip to step 24. Press the X (NO) button if oil is in the filter pan and continue to next step.
DISPOSE OIL IN FILTER PAN AND RESTART CLEAN AGAIN	23. Press the √ (check - YES) button and skip to step 48. Dispose of the oil in the filter pan by using the fill vat from pan option and then the dispose option. Once finished start the clean function again.
SOLUTION ADDED?	24. Fill the vat to be cleaned with water and cleaning solution mix. Press the √ (check - YES) button to start the cleaning procedure.
CLEANING or BOIL OUT	25. Scrub the vat and then let the solution soak while the cold clean or boil out timer counts down. If a boil out is selected the vat heats to 195° F (91° C) for one hour.
CLEAN DONE or BOIL OUT DONE	26. Press the √ (check - YES) button to silence the alarm.
CLEAN FILTER PAN	27. Remove the crumb basket and hold down ring. Remove the filter paper or pad and dispose. Remove the screen. Clean all the filter pan components and filter pan.
INSERT CLEANING DISPOSAL UNIT changing to IS CLEANING DISPOSAL UNIT IN PLACE?	28. Insert the cleaning disposal unit or disposal pan large enough to contain FOUR gallons (15 liters) or more under the drain and press √ (check-YES).
DRAINING	29. No action is required while the vat drains.
RINSE COMPLETE?	30. Rinse excess solution from vat. Press the √ (check - YES) button when the vat is completely rinsed.
IS SOLUTION REMOVED?	31. Ensure the solution is removed and press the √ (check - YES) button when the vat is completely rinsed.
ALERT DRAIN CLOSING REMOVE TOOLS	32. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
REMOVE THE CLEANING SOLUTION UNIT	33. Remove the cleaning solution unit or disposal pan and press the √ (check - YES) button when finished. If oil was saved, skip to step 38.

DISPLAY	ACTION
IS FILTER PAN CLEAN?	34. Ensure the filter pan and components are clean. Press the √ (check - YES) button when complete. Pressing the X (NO) button if the filter pan is not clean prompts to Clean Filter Pan. Press the √ (check - YES) button when the filter pan is clean and continue to next step.
IS FRYPOT AND FILTER PAN DRY?	35. Ensure the frypot, filter pan and components are completely dry. Press the √ (check - YES) button when finished. DANGER Ensure that the frypot and filter pan are completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.
INSERT FILTER PAN	36. Reinstall screen, filter paper or pad, hold down ring and crumb basket removed in step 27. Insert the filter pan.37. Carefully pour oil into the vat until it reaches the low-level fill
MANUALLY FILL VAT	line in the fryer. Press the √ (check - YES) button once the vat is full and skip to step 48.
IS FRYPOT DRY?	38. Ensure the frypot is completely dry. Press the √ (check - YES) button when finished. DANGER Ensure that the frypot is completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.
RETURNING SAVED OIL?	39. Press the √ (check - YES) button to continue returning the saved oil.
INSERT FILTER PAN	40. Insert the filter pan with the saved oil removed in step 14.
FILL FRYPOT FROM FILTER PAN?	41. Press the √ (check - YES) button to fill the frypot.
FILLING IS FRYPOT FULL OF OIL?	 42. No action is required while the vat is filling. 43. Press the X (NO) button to run the pump again if the oil level is below the top oil level full line. Press the √ (check - YES) button once the oil level is at the top oil level full line. If the vat oil level is not completely filled, check the filter pan to see if most of the oil has returned. The pan may have a small amount of oil.
REMOVE FILTER PAN	44. Carefully pull the filter pan from the fryer. DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
CLEAN FILTER PAN	45. Remove the crumb basket and hold down ring. Remove the filter paper or pad and dispose. Remove the screen. Clean all the filter pan components and filter pan.

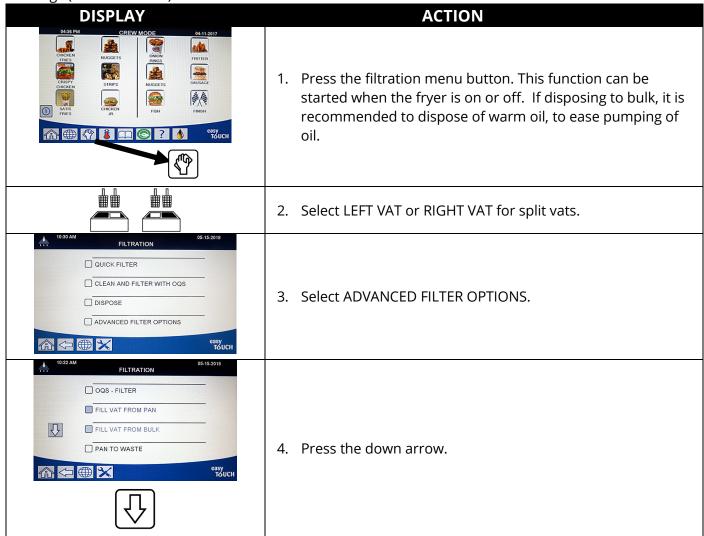
IS FILTER PAN DRY?	46. Ensure the filter pan and components are completely dry. Press the √ (check - YES) button when finished.
	DANGER Ensure that the filter pan is completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.
INSERT FILTER PAN	47. Reinstall screen, filter paper or pad, hold down ring and crumb basket removed in step 45. Insert the filter pan.
	48. The controller switches off.

2.1.12 Clean (Boil-Out [Hot] or Cold Clean) for Bulk, Wand Front, and Wand External Dispose Waste Oil Systems

The clean mode is used to remove carbonized oil from the frypot. The type of clean (hot or cold) will depend on the manager settings - filter attributes - clean settings (see section 1.8).

▲ WARNING

Ensure filter paper or pad is in place prior to draining or disposing of oil. Failure to insert filter paper or pad may result in clogged lines and/or pumps.



DISPLAY	ACTION
DRAIN TO PAN CLEAN POLISH Casy Töuch	5. Select CLEAN.
тойсн	C. Ducce the Alabarda VECV button to continue lifth a V (NO)
COLD CLEAN NOW? or BOIL OUT NOW?	6. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
SAVING OIL?	7. Press the √ (check - YES) button if saving the oil and the oil is to be reused skip to step 10. If the X (NO) button is selected, continue to next step.
IS OIL DISPOSED?	8. If the oil <u>HAS</u> already been disposed and the frypot is empty, press the √ (check - YES) button and skip to step 10. If the oil <u>HAS NOT</u> been disposed, and is a bulk or front wand dispose, press the X (NO) button and skip to step 15. If the oil <u>HAS NOT</u> been disposed, and is an external wand dispose, press the X (NO) button and skip to step 24. If disposing to bulk and the bulk tank is full, proceed to next step.
BULK TANK FULL?	9. This message is only displayed if the bulk tank on bulk waste systems is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.
	10. Carefully pull the filter pan from the fryer.
REMOVE FILTER PAN	DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	11. If the oil <u>IS NOT</u> being saved, the filter pan is empty, and a bulk or front wand dispose, press the √ (check - YES) button and skip to step 37. If the oil <u>IS NOT</u> being saved, the filter pan is empty, and an external wand dispose, press the √ (check - YES) button and skip to step 24. If the oil <u>IS</u> being saved and the filter pan is empty, press the √ (check - YES) button and continue to next step. Press the X (NO) button if oil is in the filter pan and continue to step 13.
INSERT FILTER PAN	12. Push the filter pan fully into place and continue to step 14.
EMPTY FILTER PAN or EMPTY FILTER PAN AND START CLEAN AGAIN	13. Press the √ (check - YES) button and skip to step 65. Dispose of the oil in the filter pan by using the fill vat from pan option and then the dispose option. Once finished start the clean function again.
DRAIN TO FILTER PAN?	14. Press the √ (check - YES) button to drain the oil to the filter pan.
DRAINING	15. No action required as oil drains into filter pan.

DISPLAY	ACTION
IS FRYPOT EMPTY?	16. Press the √ (check - YES) button when the frypot is empty to continue. If the oil <u>IS NOT</u> being saved and if disposing to bulk, skip to step 26. If the oil <u>IS NOT</u> being saved and if using front wand dispose, proceed to the next step. If the oil <u>IS</u> being saved, proceed to step 18.
SCRUB FRYPOT COMPLETE?	17. Clean the frypot with a scrub brush and when complete press the √ (check - YES) button to continue.
ALERT DRAIN CLOSING REMOVE TOOLS	18. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. If the oil IS being saved, proceed to step 29. A DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
POSITION DISPOSAL UNIT	19. Position the disposal unit in front of the fryer and press the √ (check - YES) button to continue.
IS DISPOSE WAND AND DISPOSAL UNIT IN PLACE?	20. Attach the dispose wand by pulling back on the female end collar and pushing firmly onto the male disconnect. Once in place, release the disconnect and ensure that the quick disconnect is fully locked into place. Ensure the disposal unit is in place, in front of the fryer and press the √ (check - YES) button to continue.
	When draining oil into an appropriate METAL container, make sure the container will hold at least FOUR gallons (15 liters) or more, otherwise hot liquid could overflow and cause injury.
OPEN DISPOSE VALVE PRESS AND HOLD THE FRONT WAND SWITCH	When draining oil into an appropriate METAL container, make sure the container will hold at least FOUR gallons (15 liters) or more, otherwise hot liquid

DISPLAY	ACTION
DISPOSING	ACTION
RELEASE WAND SWITCH AND CLOSE DISPOSE VALVE WHEN FULL	23. The oil transfers from the filter pan to the disposal unit. When the pan is empty, release the switch to stop the pump. Close the dispose valve when full by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager. Skip to step 29.
IS WAND DISPOSAL SYSTEM IN	24. Ensure the external wand disposal system is in place and
PLACE?	press the √ (check - YES) button to continue.
USE WAND TO EXTRACT OIL FROM FRYPOT	25. Use the external wand to pump oil from the frypot to the disposal unit. Press √ (check - YES) button when complete and proceed to step 27.
OPEN DISPOSE VALVE	
	26. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal and continue to next step.
DISPOSING	27. No action is required while the pump transfers the waste oil from the pan to the bulk oil waste tanks for four (4) minutes or wand external system for two (2) minutes. If disposing to bulk or front wand skip to step 29. If disposing to external wand proceed to next step.
IS FRYPOT EMPTY?	28. Once the frypot is empty, press √ (check - YES) button when complete and proceed to the next step.
REMOVE FILTER PAN	29. Carefully pull the filter pan from the fryer. If oil IS NOT being saved proceed to next step. If the oil IS being saved and the filter pan if full of oil, remove the filter pan from the fryer and skip to step 37. DANGER Open the filter pan slowly to avoid splashing of hot oil
	that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	30. If the filter pan <u>IS</u> empty press the √ (check - YES) button. If disposing to bulk skip to step 35. If using front wand dispose continue to step 33. If disposing to external wand skip to step 32. If the filter pan <u>IS NOT</u> empty, press the X (NO) button; return to step 27 for bulk; step 21 for front dispose; or continue to next step for external wand.

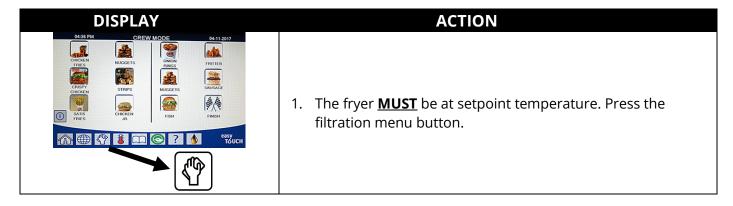
DISPLAY	ACTION
USE WAND TO EXTRACT OIL FROM THE FILTER PAN	31. Use the external wand to pump oil from the filter pan to the disposal unit. Press √ (check - YES) button when complete and proceed to the next step.
REMOVE WAND DISPOSAL SYSTEM	32. Remove the external wand disposal system and proceed to next step.
INSERT FILTER PAN	33. Insert the filter pan. If disposing to bulk or using an external wand, skip to step 37. If using front wand dispose continue to next step.
REMOVE DISPOSAL UNIT AND DETACH WAND	34. Disconnect the disposal wand and remove the disposal unit and press √ (check - YES) button when complete and skip to step 37.
CLOSE DISPOSE VALVE	35. Close the dispose valve by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager.
ALERT DRAIN CLOSING REMOVE TOOLS	36. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. ⚠ DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
SOLUTION ADDED?	37. Fill the vat to be cleaned with water and cleaning solution mix. Press the √ (check – YES) button to start the cleaning procedure.
CLEANING or BOIL OUT	38. Scrub the vat and then let the solution soak while the cold clean or boil out timer counts down. If a boil out is selected the vat heats to 195° F (91° C) for one hour.
CLEAN DONE or BOIL OUT DONE	39. Press the √ (check - YES) button to silence the alarm. If saving oil skip to step 41.
CLEAN FILTER PAN	40. Remove the crumb basket and hold down ring. Remove the filter paper or pad and dispose. Remove the screen. Clean all the filter pan components and filter pan.
INSERT CLEANING DISPOSAL UNIT changing to IS CLEANING DISPOSAL UNIT IN	41. Insert the cleaning disposal unit or disposal pan large enough to contain FOUR gallons (15 liters) or more under the drain and press √ (check-YES).
PLACE?	the drain and press v (effect 125).
PLACE? DRAINING	42. No action is required while the vat drains.

DISPLAY	ACTION
	45. Ensure that all tools are removed from the frypot prior to
ALERT DRAIN CLOCING DEMOVE	the drain closing to prevent damage to the drain.
ALERT DRAIN CLOSING REMOVE	△ DANGER
TOOLS	Keep all items out of drains. Closing actuators may
	cause damage or injury.
REMOVE THE CLEANING SOLUTION	46. Remove cleaning solution unit or disposal pan and press the
UNIT	\checkmark (check - YES) button when finished. If oil was saved, skip to
OWN	step 50.
	47. Ensure the filter pan and components are clean. Press the √
IS FILTER PAN CLEAN?	(check - YES) button when complete. Pressing the X (NO)
13 FILTER FAIN CLEAIN!	button if the filter pan is not clean prompts to Clean Filter Pan. Press once filter pan is clean and continue to next
	step.
	48. Ensure the frypot, filter pan and components are completely
	dry. Press the √ (check - YES) button when finished.
	⚠ DANGER
IS FRYPOT AND FILTER PAN DRY?	Ensure that the frypot and filter pan are completely
	dry and free of water before filling with oil. Failure to
	do so will cause splattering of hot liquid when the oil
	is heated to cooking temperature.
	49. Reinstall screen, filter paper or pad, hold down ring and
INSERT FILTER PAN	crumb basket. Insert the filter pan. If using a JIB fresh oil
INSERT VETER TYPE	system skip to step 64. If using a bulk fresh oil system type,
IS EDVDOT DDV2	skip to step 60. 50. Dry the frypot, ensuring it is completely dry. Press the √
IS FRYPOT DRY?	(check - YES) button when finished.
	DANGER
	Ensure that the frypot is completely dry and free of
	water before filling with oil. Failure to do so will cause
	splattering of hot liquid when the oil is heated to
	cooking temperature.
RETURNING SAVED OIL?	51. Press the √ (check - YES) button to continue returning the saved oil.
INSERT FILTER PAN	52. Insert the filter pan with the saved oil removed in step 29.
FILL FRYPOT FROM FILTER PAN?	53. Press the √ (check - YES) button to fill the frypot.
FILLING	54. No action is required while the vat is filling.
	55. Press the X (NO) button to return to previous step and run
	the pump again, if the oil level is below the bottom oil level
	line. Press the √ (check - YES) button once the oil level is at
IS FRYPOT FULL OF OIL?	or above the bottom oil level line. If the frypot oil level is not at or above the bottom oil level line, check the filter pan to
	see if most of the oil has returned. The pan may have a
	small amount of remaining oil.

DISPLAY	ACTION	
REMOVE FILTER PAN	56. Carefully pull the filter pan from the fryer. DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.	
CLEAN FILTER PAN	57. Remove the crumb basket and hold down ring. Remove the filter paper or pad and dispose. Remove the screen. Clean all the filter pan components and filter pan. Press the √ (check - YES) button when finished.	
IS FILTER PAN DRY?	58. Ensure the filter pan and components are completely dry. Press the √ (check - YES) button when finished.	
	DANGER Ensure that the filter pan is completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.	
INSERT FILTER PAN	59. Reinstall screen, filter paper or pad, hold down ring and crumb basket removed in step 57. Insert the filter pan and skip to step 65.	
FILL VAT FROM BULK?	60. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu.	
START FILLING? PRESS AND HOLD	61. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps if the switch is depressed.	
RELEASE BUTTON WHEN FULL	62. Release the button when the vat is filled to the lower fill line.	
CONTINUE FILLING?	63. Press the √ (check - YES) button to continue filling. Otherwise press the X (NO) button once the vat is full, to exit and return to OFF.	
MANUALLY FILL VAT	64. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.	
0	65. The controller switches off.	

2.1.13 Polish

The polish mode is used as an extended filtration to remove impurities from the oil.



DISPLAY	ACTION
	ACTION
	2. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION QUICK FILTER QUICK FILTER WITH OQS DISPOSE ADVANCED FILTER OPTIONS Casy Touch	3. Select ADVANCED FILTER OPTIONS.
FILTRATION OS-15-2018 OQS - FILTER FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE Casy Touch	4. Press the down arrow.
DRAIN TO PAN CLEAN POLISH Casay Touch	5. Select POLISH.
POLISH?	6. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the previous state.
SKIM DEBRIS FROM VAT	7. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat. This is critical to optimizing usable oil life and quality of the oil. Press the √ (check - YES) button when complete. Press the X button to cancel the filter.
START POLISH	8. Press the BLUE button to start a polish or the X button to cancel the function. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
DRAINING	9. No action required as oil drains into filter pan.
POLISHING	10. No action required while the drain and return valves are open and oil is pumped through the frypot for an extended period of time.
ALERT DRAIN CLOSING REMOVE TOOLS	11. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.
FILLING	12. No action required as the vat refills.
PREHEAT	13. No action required as the fryer heats to setpoint.
START	14. Fryer is ready for use. Displayed once fryer reaches setpoint.

CHAPTER 3: FILTERQUICK™ FQ4000 OPERATOR TROUBLESHOOTING

3.1 Introduction

This chapter provides an easy reference guide to some of the common problems that may occur during the operation of your equipment. The troubleshooting guides that follow are intended to help you correct, or at least accurately diagnose, problems with your equipment. Although the chapter covers the most common problems reported, you may encounter problems that are not covered. In such instances, the Frymaster Technical Services staff will make every effort to help you identify and resolve the problem.

When troubleshooting a problem, always use a process of elimination starting with the simplest solution and working through to the most complex. Most importantly, always try to establish a clear idea of why a problem has occurred. Part of your corrective action involves taking steps to ensure that it doesn't happen again. If a controller malfunctions because of a poor connection, check all other connections. If a fuse continues to blow, find out why. Always keep in mind that failure of a small component may often be indicative of potential failure or incorrect functioning of a more important component or system.

If you are in doubt as to the proper action to take, do not hesitate to call the Frymaster Technical Service Department or your local Frymaster Factory Authorized Servicer for assistance.

Before calling a servicer or the Frymaster HOTLINE (1-800-551-8633):

- Verify that electrical cords are plugged in and that circuit breakers are on.
- Verify that gas line quick-disconnects are properly connected.
- Verify that any gas line cutoff valves are open.
- Verify that frypot drain valves are fully closed.
- Have your fryer's model and serial numbers ready to give the technician assisting you.



Hot oil will cause severe burns. Never attempt to move this appliance when filled with hot oil or to transfer hot oil from one container to another.



This equipment should be unplugged when servicing, except when electrical circuit tests are required. Use extreme care when performing such tests.

This appliance may have more than one electrical power supply connection point. Disconnect all power cords before servicing.

Inspection, testing, and repair of electrical components should be performed by an authorized service agent only.

3.2 Troubleshooting

3.2.1 Error Messages and Display Problems

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
No display on the controller.	A. No power to fryer. B. Failed controller or other component	A. Verify that the fryer is plugged in and that the circuit breaker is not tripped.B. Call your FAS for assistance.
FQ4000 displays IS VAT FULL? YES NO after a filtration.	 A. Normal operation during most at the beginning or end of most filtration functions. B. If the display appears many times during a filter it could be an indication of slow oil return. 	 A. Ensure the vat is full of oil and press the √ button. B. See section 2.3 troubleshooting in the FQx30-T IO Manual –Filter Pump runs, but oil return is very slow.
FQ4000 displays IS DRAIN CLEAR?	Drain is clogged and oil failed to drain.	Clear drain with Fryers Friend and press √ button. Filtration will resume.
FQ4000 displays CHANGE FILTER PAPER/PAD?	Filter error has occurred, filter paper/pad clogged, 25-hour filter paper/pad change prompt has occurred or change filter paper/pad was ignored on a prior prompt.	Change the filter paper/pad and ensure the filter pan has been removed from the fryer for a minimum of 30 seconds. Do NOT ignore CHANGE FILTER PAPER/PAD prompts.
Controller locks up.	Controller error.	Remove and restore power to the controller. If problem persists, call your FAS for assistance.
FQ4000 displays MISCONFIGURED ENERGY TYPE	Energy type in fryer setup is incorrect.	Ensure that the fryer is configured properly for the correct energy type.
FQ4000 displays VAT ID CONNECTOR NOT CONNECTED	Controller locator missing or disconnected.	Ensure the 6-pin locator is connected to rear of controller and it properly grounded in control box.
FQ4000 displays E19 or E28 HEATING FAILURE.	Gas valve off, failed controller, failed transformer, contactor or open highlimit thermostat.	It is normal for this message to appear during startup if the lines have air in them. Check that the gas valve is on. If the gas is on and it continues shut the fryer down and call your FAS for assistance.
FQ4000 display shows HOT-HI-1.	Frypot temperature is more than 410°F (210°C) or, in CE countries, 395°F (202°C).	Shut the fryer down immediately and call your FAS for assistance.

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
FQ4000 displays RECOVERY FAULT and alarm sounds.	Recovery time exceeded maximum time limit.	Clear error and silence the alarm by pressing the check √ button. Maximum recovery time for gas is 3:15, electric is 1:40. If the error continues call your FAS for assistance.
FQ4000 display is in wrong temperature scale (Fahrenheit or Celsius).	Incorrect display option programmed.	Toggle between F° to C° by entering Manager settings, temperature and toggling the temperature scale. Turn the controller on to check temperature. If the desired scale is not displayed, repeat.
FQ4000 displays HELP HI-2 or HIGH LIMIT FAILURE DISCONNECT POWER.	Failed high limit	Shut the fryer down immediately and call your FAS for assistance.
FQ4000 displays TEMPRATURE PROBE FAILURE.	Problem with the temperature measuring circuitry including the probe or damaged controller wiring harness or connector.	Shut the fryer down and call your FAS for assistance.
FQ4000 displays SERVICE REQUIRED followed by an error message.	An error has occurred which requires a service technician.	Press X to continue cooking and call your FAS for assistance. In some cases, cooking may not be allowed.
FQ4000 displays NO MENU GROUP AVAILABLE FOR SELECTION	All menu groups have been deleted. NOTE: ALL RECIPES is not a group that can be used to cook recipes.	Create a new MENU group. Once a new menu is created, add recipes to the group (see section 1.10).

3.2.2 Troubleshooting the Auto Filtration

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Fryer filters after each cook cycle.	Filter after setting incorrect.	Change or overwrite the filter after setting by re-entering the filter after value in Manager Settings, Filter Attributes in section 1.8.
CLEAN AND FILTER won't start.	Temperature too low.	Ensure fryer is at setpoint before starting Clean and Filter.
FQ4000 display shows FILTER BUSY.	A. Another filtration cycle or filter pad change is still in process.B. Filter interface board has not cleared checking system.	A. Wait until the previous filtration cycle ends to start another filtration cycle. Change filter pad if prompted.B. Wait 15 minutes and try again.

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
FQ4000 displays INSERT PAN.	A. Filter pan is not fully set into fryer.B. Missing filter pan magnet.C. Defective filter pan switch.	 A. Pull filter pan out and fully reinsert into fryer. Ensure controller does not display P. B. Ensure the filter pan magnet is in place and replace if missing. C. If the filter pan magnet is fully against the switch and controller continues to display INSERT PAN, switch is possibly defective.
Auto filtration won't start.	 A. Oil level too low. B. Oil temperature is too low. C. Filter Pan out. D. Filtration in recipe settings is set to OFF. E. Filter relay has failed. 	 A. Ensure oil level is at the top oil fill line (at the top oil level sensor). B. Ensure the oil temperature is at setpoint. C. Ensure controller does not display P. Ensure the filter pan is fully seated into fryer. Power cycle the fryer. D. Set filtration in recipes to ON. E. Call your FAS for assistance.

3.2.3 Filter Busy

When **FILTER BUSY** is displayed the filter interface board is waiting on another vat to be filtered or waiting on another function to finish. Wait 15 minutes to see if problem is corrected. If not, call your local FAS.

3.2.4 OQS (Oil Quality Sensor) Troubleshooting

3.2.5 Error Log Codes

See section 1.12.2.1 for instructions to access the Error Log.

Code	ERROR MESSAGE	EXPLANATION
E13	TEMPERATURE PROBE FAILURE	TEMP Probe reading out of range. Call
		service.
E16	HIGH LIMIT 1 EXCEEDED	High limit temperature is past more than
		410°F (210°C), or in CE countries, 395°F
		(202°C)
E17	HIGH LIMIT 2 EXCEEDED	High limit switch has opened.
E18	HIGH LIMIT PROBLEM	Vat temperature exceeds 460°F (238°C) and
	DISCONNECT POWER	the high limit has failed to open.
		Immediately disconnect power to the fryer
		and call service.
E19	HEATING FAILURE – XXX F or XXX C	Heating Control latch circuit failed.
		Heat Contactor failed to latch.
E25	HEATING FAILURE - BLOWER	The air pressure switch(s) failed to close.
E27	HEATING FAILURE - PRESSURE SWITCH - CALL	The air pressure switch has failed closed.
	SERVICE	,
E28	HEATING FAILURE – XXX F or XXX C	The fryer has failed to ignite and has locked
		out the ignition module.
E29	TOP OFF PROBE FAILURE - CALL SERVICE	ATO RTD reading out of range. Call service
E32	DRAIN VALVE NOT OPEN - FILTRATION AND	Drain valve was trying to open and
	TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E33	DRAIN VALVE NOT CLOSED - FILTRATION AND	Drain valve was trying to close and
	TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E34	RETURN VALVE NOT OPEN - FILTRATION AND	Return valve was trying to open and
	TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E35	RETURN VALVE NOT CLOSED - FILTRATION	Return valve was trying to close and
	AND TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E36	VALVE INTERFACE BOARD FAILURE -	Valve Interface Board connections lost or
	FILTRATION AND TOP OFF DISABLED - CALL	board failure. Call service.
	SERVICE	
E37	AUTOMATIC INTERMITTENT FILTRATION	AIF RTD reading out of range. Call service.
	PROBE FAILURE - FILTRATION DISABLED - CALL	
	SERVICE	
E39	CHANGE FILTER PAD	25-hour timer has expired or dirty filter
		logic has activated. Change the filter paper
		or pad.
E41	OIL IN PAN ERROR	The system detects that oil may be present
		in the filter pan.
E42	CLOGGED DRAIN (Gas)	Vat did not empty during filtration. Ensure
		the drain is not clogged and follow
		prompts.
E43	OIL SENSOR FAILURE - CALL SERVICE	Oil level sensor may have failed. Call
		service.

Code	ERROR MESSAGE	EXPLANATION
E44	RECOVERY FAULT	Recovery time exceeded maximum time
L44	RECOVERTIAGET	limit.
E45	RECOVERY FAULT – CALL SERVICE	Recovery time exceeded maximum time
L	NECOVERT TROET CALE SERVICE	limit for two or more cycles. Call service.
E46	SYSTEM INTERFACE BOARD 1 MISSING - CALL	SIB board 1 connection lost or board
	SERVICE	failure. Call service.
E51	DUPLICATE BOARD ID - CALL SERVICE	Two or more controllers have the same
		location ID. Call service.
E52	USER INTERFACE CONTROLLER ERROR - CALL	The controller has an unknown error. Call
	SERVICE	service.
E53	CAN BUS ERROR - CALL SERVICE	Communications are lost between boards.
		Call service.
E54	USB ERROR	USB connection lost during an update.
E55	SYSTEM INTERFACE BOARD 2 MISSING - CALL	SIB board 2 connection lost or board
	SERVICE	failure. Call service.
E61	MISCONFIGURED ENERGY TYPE	The fryer is configured for the incorrect
F.62	VAT NOT HEATING CHECK ENERGY COURSE	energy type. Call service.
E62	VAT NOT HEATING – CHECK ENERGY SOURCE –	The vat is not heating properly.
E63	XXXF OR XXXC	Data of rice array acquired during a
E03	RATE OF RISE	Rate of rise error occurred during a recovery test. Ensure the oil level is at the
		bottom oil level when cold and at the top
		oil level line when at setpoint. On electric
		fryers ensure the probe is not touching the
		elements.
E64	FILTRATION INTERFACE BOARD FAILURE -	Filtration Interface Board connections lost
	FILTRATION AND TOP OFF DISABLED - CALL	or board failure. Call service.
	SERVICE	
E65	CLEAN OIB SENSOR – XXX F OR XXX C - CALL	Gas -The oil is back sensor does not detect
	SERVICE	oil. Clean optional oil sensor.
E66	DRAIN VALVE OPEN – XXXF OR XXXC	Drain valve is opened during cooking.
E67	SYSTEM INTERFACE BOARD NOT CONFIGURED	Controller is turned on when the SIB board
	- CALL SERVICE	is not configured. Call service.
E68	OIB FUSE TRIPPED – CALL SERVICE	The VIB board OIB fuse has tripped and
		didn't reset. Call service.
E69	RECIPES NOT AVAILABLE – CALL SERVICE	The controller has not been programmed
		with product recipes. Replace controller
F70	OOS TEMP HIGH	with factory programmed controller.
E70	OQS TEMP HIGH	Oil temperature is too high for a valid OQS
		reading. Filter at a temperature between
E71	OOS TEMP LOW	300°F (149°C) and 375°F (191°C).
E71	OQS TEMP LOW	Oil temperature is too low for a valid OQS reading. Filter at a temperature between
		300°F (149°C) and 375°F (191°C).
E72	TPM RANGE LOW	The TPM is too low for a valid OQS reading.
L/Z	II IVI IVAINUL LOVV	The Hillia too low for a valid ogs reading.

Code	ERROR MESSAGE	EXPLANATION
		This may also be seen with fresh new oil.
		The incorrect oil type may be selected in
		the setup menu. The sensor may not be
		calibrated for the oil type. See oil type chart
		in instruction document 8197316. If issue
		continues contact a FAS.
E73	TPM RANGE HIGH	The TPM reading is too high for a valid OQS
		reading. Dispose the oil.
E74	OQS ERROR	The OQS has an internal error. If issue
		continues contact a FAS.
E75	OQS AIR ERROR	The OQS is detecting air in the oil. Check
		the O-rings and check/tighten prescreen
		filter to ensure no air is entering the OQS
		sensor. If issue continues contact a FAS.
E76	OQS ERROR	The OQS sensor has a communication
		error. Check connections to the OQS
		sensor. Power cycle the entire fryer battery.
		If issue continues contact a FAS.
E81	SAFE MODE FAILURE ERROR	The system has detected the fryer is not
		heating properly due to low oil conditions.
		Ensure the fryer has oil to the bottom fill
		line or higher. If not, add oil to the bottom
		fill line. If issue continues contact a FAS.





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