

<u>NOTICE</u>

IF, DURING THE WARRANTY PERIOD, THE CUSTOMER USES A PART FOR THIS ENODIS EQUIPMENT OTHER THAN AN <u>UNMODIFIED</u> NEW OR RECYCLED PART PURCHASED DIRECTLY FROM FRYMASTER DEAN, 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 DEAN 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 Dean Factory Authorized Service Center (FASC) or other qualified professional should perform installation, maintenance, and repairs. Installation, maintenance, or repairs by unqualified personnel may void the manufacturer's warranty. See Chapter 1 of this manual for definitions of qualified personnel.

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. See NATIONAL CODE REQUIREMENTS in Chapter 2 of this manual for specifics.

NOTICE TO U.S. CUSTOMERS

This equipment is to be installed in compliance with the basic plumbing code of the Building Officials and Code Administrators International, Inc. (BOCA) and the Food Service Sanitation Manual of the U.S. Food and Drug Administration.

NOTICE

Drawings and photos used in this manual are intended to illustrate operational, cleaning and technical procedures and may not conform to onsite management operational procedures.

NOTICE TO OWNERS OF UNITS EQUIPPED WITH COMPUTERS

<u>U.S.</u>

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.

Improper installation, adjustment, maintenance or service, and unauthorized alterations or modifications can cause property damage, injury, or death. Read the installation, operating, and service instructions thoroughly before installing or servicing this equipment.

The front ledge of this appliance is not a step! Do not stand on the appliance. Serious injury can result from slips or contact with the hot cooking oil.

Do not store or use gasoline or other flammable liquids or vapors in the vicinity of this or any other appliance.

\rm DANGER

The crumb tray in fryers equipped with a filter system must be emptied into a fireproof container at the end of frying operations each day. Some food particles can spontaneously combust if left soaking in certain shortening material.

\rm MARNING

Do not bang fry baskets or other utensils on the fryer's joiner strip. The strip is present to seal the joint between the fry vessels. Banging fry baskets on the strip to dislodge shortening will distort the strip, adversely affecting its fit. It is designed for a tight fit and should only be removed for cleaning.

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. A restraint kit is provided with the fryer. If the restraint kit is missing contact your local KES.

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

NOTICE

The instructions in this manual for using a bulk oil system for filling and discarding oil are for an RTI system. These instructions may not be applicable to other bulk oil systems.



PROTECTOR[®] Series Electric Fryers Installation and Operation Manual

TABLE OF CONTENTS

CHAPTER 1: Introduction

1.1	General Information	1-1
1.2	Safety Information	1-1
1.3	Computer Information	1-2
1.4	European Community (CE) Specific Information	1-2
1.5	Installation, Operating and Service Personnel	1-2
1.6	Definitions	1-2
1.7	Shipping Damage Claim Procedure	1-3
1.8	Service Information	1-3
CHAPT	ER 2: Installation Instructions	
2.1	General Installation Requirements	2-1
2.2	Power Requirements	2-3
2.3	Positioning the Fryer Station	2-3
CHAPT	ER 3: Operating Instructions	
3.1	Setup and Shutdown Procedures	3-2
3.2	Operation	3-2
3.3	Oil Attendant [™] Automatic Topoff	3-3
3.3.1	Preparing the System for Use	3-3
3.3.2	Installing the Oil Reservoir	3-3
3.3.3	Oil Changes	3-3
3.3.4	Bulk Oil Systems	3-4
CHAPT	ER 4: CM-7 Computer Instructions	
4.1	CM-7 General Information	4-1
4.2	Basic Operation	4-2
4.3	Cooking with Multi-Product Display	4-3
4.4	Cooking with Dedicated Display	4-4
4.5	Changing from Breakfast Setup to Lunch	4-5
4.6	Changing from Lunch Setup to Breakfast	4-6
4.7	CM-7 Button Description and Functions	4-7
4.7.1	Navigation Buttons	4-7
4.7.2	Temperature and Unlock Buttons	4-7
4.7.3	Cook Cycle and Selection Buttons	4-7
4.7.4	Melt Cycle and Cooking Displays	4-7
4.8	CM-7 Menu Summary Tree	4-8
4.9	Setup Mode Programming	4-9
4.10	CM-7 Common Tasks	. 4-12
4.10.	1 Escape Menu	. 4-12
4.10.	2 Adding New Product Items to the Menu	. 4-12

	4.10.3	3 Storing Menu Items in Product Buttons4	-15
	4.10.4	Temperature Conversion from F° to C°4	-16
	4.11	Boil-Out Mode	-16
	4.11.1	Clean Filter Pan, Detachable Parts and Accessories4	-18
	4.12	Manager Mode	-19
	4.13	Sensitivity settings Chart	-21
CI	IAPTI	ER 5: Filtration Instructions	
	5.1	Draining and Manual Filtering	5-1
	5.2	Preparing the Built-In Filtration System for Use	5-2
	5.2.1	Preparation for use with Filter Paper or Filter Pad	5-3
	5.2.2	Preparation for use with the Magnasol Filter Assembly	5-4
	5.3	Operation of the Filter	5-5
	5.4	Disassembly and Reassembly of the Magnasol Filter	5-7
	5.5	Draining and Disposing of Waste Oil	5-9
	5.6	Using the Optional Oil Disposal	5-9
CI	IAPTI	ER 6: Preventive Maintenance	
	6.1	Preventative Maintenance Checks and Services	6-1
	6.2	Daily Checks and Service	6-1
	6.2.1	Inspect for Damage	6-1
	6.2.2	Cleaning fryer Cabinet	6-1
	6.2.3	Cleaning the Built-In Filtration System	6-1
	6.3	Weekly Checks and Service	6-2
	6.3.1	Cleaning the Frypot and Heating Elements	6-2
	6.3.2	Boiling Out the Frypot	6-2
	6.4	Monthly Checks and Service	6-2
	6.4.1	Check CM-7 Setpoint	6-2
	6.5	Annual/Periodic System Inspection	6-2
	6.5.1	Fryer	6-3
	6.5.2	Built-In Filtration System	6-3
CI	HAPTI	ER 7: Operator Troubleshooting	
	7.1	Introduction	7-1
	7.2	Troubleshooting	7-2
	7.2.1	Troubleshooting Controller and Heating Problems	7-2
	7.2.2	Troubleshooting Error Messages and Display Problems	7-2
	7.2.3	Troubleshooting Filtration Problems	7-3
	7.2.4	Troubleshooting Auto Top Off Problems	7-4
	7.2.5	Troubleshooting the Basket Lift Problems	7-4

PROTECTOR[®] SERIES ELECTRIC FRYERS CHAPTER 1: INTRODUCTION

1.1 General

Read the instructions in this manual thoroughly before attempting to operate this equipment. This manual covers all configurations of FPEL14, FPEL17, and FPEL22 models. The fryers in this model family have most parts in common, and when discussed as a group, will be referred to as "Protector[®] Series Electric" fryers.

Although similar in appearance to the RE Series Electric family of Electric fryers, the Protector[®] Series Electric fryers with SMART4U[®] technology feature a significantly different frypot with an oil top off system. Other features, such as rotating elements and filtration system remain essentially unchanged. The Protector[®] Series Electric fryers are controlled with a CM-7 computer. Fryers in this series come in full pot arrangements, and can be purchased as two, three or four vat fryers.

1.2 Safety Information

Before attempting to operate your unit, read the instructions in this manual thoroughly.

Throughout this manual, you will find notations enclosed in double-bordered boxes similar to the one below.



Hot cooking oil causes severe burns. Never attempt to move a fryer containing hot oil or to transfer hot oil from one container to another.

CAUTION boxes contain information about actions or conditions that *may cause or result in a malfunction of your system*.

WARNING boxes contain information about actions or conditions that *may cause or result in damage to your system*, and which may cause your system to malfunction.

DANGER boxes contain information about actions or conditions that *may cause or result in injury to personnel*, and which may cause damage to your system and/or cause your system to malfunction.

Fryers in this series are equipped with the following automatic safety features:

- 1. Two high-temperature detection features shut off power to the elements should the temperature controls fail.
- 2. A safety switch built into the drain valve prevents the elements from heating with the drain valve even partially open.

1.3 Computer Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. While this device is a verified Class A device, it has been shown to meet the Class B limits. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If necessary, the user should consult the dealer or an experienced radio and television technician for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

1.4 European Community (CE) Specific Information

The European Community (CE) has established certain specific standards regarding equipment of this type. Whenever a difference exists between CE and non-CE standards, the information or instructions concerned are identified by means of shadowed boxes similar to the one below.

CE Standard
Example of box used to distinguish CE and
Non-CE specific information.

1.5 Installation, Operating, and Service Personnel

Operating information for Frymaster equipment has been prepared for use by qualified and/or authorized personnel only, as defined in Section 1.6. All installation and service on Frymaster equipment must be performed by qualified, certified, licensed, and/or authorized installation or service personnel, as defined in Section 1.6.

1.6 Definitions

QUALIFIED AND/OR AUTHORIZED OPERATING PERSONNEL

Qualified/authorized operating personnel are those who have carefully read the information in this manual and have familiarized themselves with the equipment functions, or who have had previous experience with the operation of the equipment covered in this manual.

QUALIFIED INSTALLATION PERSONNEL

Qualified installation personnel are individuals, firms, corporations, and/or companies which, either in person or through a representative, are engaged in and are responsible for the installation of electrical appliances. Qualified personnel must be experienced in such work, be familiar with all electrical precautions involved, and have complied with all requirements of applicable national and local codes.

QUALIFIED SERVICE PERSONNEL

Qualified service personnel are those who are familiar with Frymaster equipment and who have been authorized by Frymaster, L.L.C. to perform service on the equipment. All authorized service personnel are required to be equipped with a complete set of service and parts manuals, and to stock a minimum amount of parts for Frymaster equipment. A list of Frymaster Factory Authorized Service Centers (FASC) is included with the fryer when shipped from the factory. *Failure to use qualified service personnel will void the Frymaster warranty on your equipment.*

1.7 Shipping Damage Claim Procedure

What to do if your equipment arrives damaged:

Please note that this equipment was carefully inspected and packed by skilled personnel before leaving the factory. Frymaster does not assume responsibility for damage or loss incurred in transit. The freight company assumes full responsibility for safe delivery upon acceptance of the equipment.

- 1. File Claim for Damages Immediately—Regardless of extent of damage.
- 2. Visible Loss or Damage—Be sure this is noted on the freight bill or express receipt and is signed by the person making the delivery.
- 3. Concealed Loss or Damage—If damage is unnoticed until equipment is unpacked, notify the freight company or carrier immediately and file a concealed damage claim. This should be done within 15 days of date of delivery. Be sure to retain container for inspection.

1.8 Service Information

For non-routine maintenance or repairs, or for service information, contact your local Frymaster Authorized Service Center (FASC). Service information may also be obtained by calling the Frymaster Technical Services Department (1-800-24FRYER) or by e-mail at <u>service@frymaster.com</u>. The following information will be needed in order to assist you efficiently:

Model Number
Serial Number
Voltage
Nature of the Problem

RETAIN AND STORE THIS MANUAL IN A SAFE PLACE FOR FUTURE USE.

PROTECTOR[®] SERIES ELECTRIC FRYERS CHAPTER 2: INSTALLATION INSTRUCTIONS

2.1 General

Proper installation is essential for the safe, efficient, trouble-free operation of this appliance.

Qualified, licensed, and/or authorized installation or service personnel, as defined in Section 1.6 of this manual, should perform all installation and service on Frymaster equipment.

Failure to use qualified, licensed, and/or authorized installation or service personnel (as defined in Section 1.6 of this manual) to install or otherwise service this equipment will void the Frymaster warranty and may result in damage to the equipment or injury to personnel.

Where conflicts exist between instructions and information in this manual and local or national codes or regulations, installation and operation shall comply with the codes or regulations in force in the country in which the equipment is installed.

Service may be obtained by contacting your local Factory Authorized Service Center.

NOTICE

All fryers shipped without factory supplied cords and plug assemblies must be hardwired using flexible conduit to the terminal block located on the rear of the fryer. These fryers should be wired to NEC specifications. Hardwired units must include installation of restraint devices.

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. A restraint kit is provided with the fryer. If the restraint kit is missing contact your local KES.

NOTICE

If this equipment is wired directly into the electrical power supply, a means for disconnection from the supply having a contact separation of at least 3-mm in all poles must be incorporated in the fixed wiring.

NOTICE

This equipment must be positioned so that the plug is accessible unless other means for disconnection from the power supply (e.g., a circuit breaker) is provided.

NOTICE

If this appliance is permanently connected to fixed wiring, it must be connected by means of copper wires having a temperature rating of not less than 167°F (75°C).

NOTICE

If the electrical power supply cord is damaged, it must be replaced by a Frymaster Dean Factory Authorized Service Center technician or a similarly qualified person in order to avoid a hazard.

This appliance must be connected to a power supply having the same voltage and phase as specified on the rating plate located on the inside of the appliance door.

\Lambda DANGER

All wiring connections for this appliance must be made in accordance with the wiring diagram(s) furnished with the appliance. Refer to the wiring diagram(s) affixed to the inside of the appliance door when installing or servicing this equipment.

\rm DANGER

Frymaster appliances equipped with legs are for stationary installations. Appliances fitted with legs must be lifted during movement to avoid damage to the appliance and bodily injury. For movable installations, optional equipment casters must be used. Questions? Call 1-800-551-8633.

\rm DANGER

Do not attach an apron drainboard to a fryer. The fryer may become unstable, tip over and cause injury. The appliance area must be kept free and clear of combustible material at all times.

In the event of a power failure, the fryer(s) will automatically shut down. If this occurs, turn the power switch OFF. Do not attempt to start the fryer(s) until power is restored.

This appliance must be kept free and clear of combustible material, except that it may be installed on combustible floors.

A clearance of 6 inches (15cm) must be provided at both sides and back adjacent to combustible construction. A minimum of 24 inches (61cm) should be provided at the front of the equipment for servicing and proper operation.

A WARNING Do not block the area around the base or under the fryers.

2.1.2 Electrical Grounding Requirements

All electrically operated appliances must be grounded in accordance with all applicable national and local codes, and, where applicable, CE codes. All units (cord connected or permanently connected) should be connected to a grounded power supply system. A wiring diagram is located on the inside of the fryer door. Refer to the rating plate on the inside of the fryer door for proper voltages.

2.1.3 Australian Requirements

To be installed in accordance with AS 5601 / AG 601, local authority, gas, electricity, and any other relevant statutory regulations.

2.2 **Power Requirements**

Three (3) Phase Requirements					
MODEL	VOLTAGE	WIRE SERVICE	MINIMU SI AWG	M WIRE ZE (mm)	AMPS (per leg)
FPEL14	208	3	6	(4.11)	39
FPEL14	240	3	6	(4.11)	34
FPEL14	480	3	8	(2.59)	17
FPEL14	220/380	4	6	(4.11)	21
FPEL14	240/415	4	6	(4.11)	20
FPEL14	230/400	4	6	(4.11)	21
FPEL17	208	3	6	(4.11)	48
FPEL17	240	3	6	(4.11)	41
FPEL17	480	3	6	(4.11)	21
FPEL17	220/380	4	6	(4.11)	26
FPEL17	240/415	4	6	(4.11)	24
FPEL17	230/400	4	6	(4.11)	25
FPEL22	208	3	4	(5.19)	61
FPEL22	240	3	4	(5.19)	53
FPEL22	480	3	6	(4.11)	27
FPEL22	220/380	4	6	(4.11)	34
FPEL22	240/415	4	6	(4.11)	31
FPEL22	230/400	4	6	(4.11)	32

Single Phase Requirements					
MODEL		WIRE SERVICE	MINIMUM WIRE SIZE		
			AWG	(mm)	(per leg)
FPEL14	208	2	3	(5.83)	68
FPEL14	240	2	4	(5.19)	59
FPEL14	480	2	8	(3.26)	30

NOTICE

If this appliance is permanently connected to fixed wiring, it must be connected by means of copper wires having a temperature rating of not less than 167°F (75°C).

This appliance must be connected to a power supply having the same voltage and phase as specified on the rating plate located on the inside of the appliance door.

All wiring connections for this appliance must be made in accordance with the wiring diagram(s) furnished with the appliance. Refer to the wiring diagram(s) affixed to the inside of the appliance door when installing or servicing this equipment.

2.3 **Positioning the Fryer**

No structural material on the fryer should be altered or removed to accommodate placement of the fryer under a hood. Questions? Call the Frymaster Dean Service Hotline at 1-800-551-8633.

1. Once the fryer has been positioned at the frying station, use a carpenter's level placed across the top of the frypot to verify that the unit is level, both side-to-side and front-to-back.

To level fryers equipped with legs, the bottom of the legs can be screwed out up to one inch for leveling. Legs should also be adjusted so that the fryer(s) are at the proper height in the frying station.

For fryers equipped with casters, there are no built-in leveling devices. The floor where the fryers are installed must be level.

When the fryer is leveled in its final position, install the restraints provided with the unit to limit its movement so that it does not depend on or transmit stress to the electrical conduit or connection. Install the restraints in accordance with the provided instructions (see illustration below). If the restraints are disconnected for service or other reasons, they must be reconnected before the fryer is used.

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. A restraint kit is provided with the fryer. If the restraint kit is missing contact your local KES.



NOTE: If you need to relocate a fryer installed with legs, remove all weight from each leg before moving. If a leg becomes damaged, contact your service agent for immediate repair or replacement.

Hot oil can cause severe burns. Avoid contact. Under all circumstances, oil must be removed from the fryer before attempting to move it to avoid oil spills, falls and severe burns. This fryer may tip and cause personal injury if not secured in a stationary position.

- 2. Close fryer drain-valve(s) and fill frypot with water to the bottom oil level line.
- 3. Boil out frypot(s) in accordance with the instructions in Section 4-11 of this manual.
- 4. Drain, clean, and fill frypot(s) with cooking oil. (See *Equipment Setup and Shutdown Procedures* in Chapter 3.)

PROTECTOR® SERIES ELECTRIC FRYER CHAPTER 3: OPERATING INSTRUCTIONS

FINDING YOUR WAY AROUND THE FPEL PROTECTOR® SERIES ELECTRIC FRYER



TYPICAL CONFIGURATION (FPEL314 SHOWN) NOTE: The appearance of your fryer may differ slightly from that shown depending upon the configuration and date of manufacture.

3.1 Equipment Setup and Shutdown Procedures

<u>Setup</u>

Never operate the appliance with an empty frypot. The frypot must be filled to the fill line with water or oil before energizing the elements. Failure to do so will result in irreparable damage to the elements and may cause a fire.

\rm 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.

🚺 WARNING

The FPEL14/17/22 is not intended to use solid shortening. Use only liquid shortening with this fryer. The use of solid shortening will clog the oil lines. The oil capacity of the FPEL14/17/22 fryer is 31 lbs. (3.7 gallons/14 liters) at 70°F (21°C).

Prior to filling frypots with oil ensure all drains are closed.

- 1. Fill the frypot with cooking oil to the <u>bottom</u> OIL LEVEL line located on the rear of the frypot. This will allow for oil expansion as heat is applied. Do not fill cold oil any higher than the bottom line; overflow may occur as heat expands the oil.
- 2. Ensure that the power cord(s) is/are plugged into the appropriate receptacle(s). Verify that the face of the plug is flush with the outlet plate, with no portion of the prongs visible.
- 3. Ensure that the power is switched on. Some models are equipped with a master switch located behind the fryer door cabinet on the front panel of the component box, next to the fuse. **DFF** is displayed on the computer.
- 4. Ensure that the computer is switched **ON**.
- 5. Ensure that the oil level is at the *top* OIL LEVEL line when the oil *is at its cooking temperature*.

<u>Shutdown</u>

- 1. Turn the fryer off.
- 2. Filter the oil and clean the fryers (See Chapters 5 and 6).
- 3. Place the frypot covers on the frypots.

3.2 Operation

If this is the first time the fryer is being used, refer to the frypot boil-out procedure on Page 6-2.

This fryer is equipped with CM-7 computers (illustrated below). Refer to the *CM7 Computer Operating Instructions in Chapter 4* for the computer programming and operating procedures.



CM7 COMPUTER

Refer to Chapter 5 of this manual for operating instructions for the built-in filtration system.

3.3 Oil Attendant[™] Automatic Top-Off

When the Oil AttendantTM top-off oil system is in place on the fryer, oil is continually topped off in the frypots from a reservoir in the cabinet. The reservoir holds a 35 pound box of oil. In a typical operation this will last approximately two days before changing. Components of the system are annotated at the right (see Figure 1).

NOTE: The system is intended to top off the frypots, not fill them. The frypots will require manual filling upon startup and after boil out.

3.3.1 Prepare the System for Use

To prepare the system for its initial operation remove cross brace (see Figure 2). Do not replace the screws. Install the JIB basket shipped in the accessories pack (see Figure 3). Follow these instructions to prepare the cabinet for the installation of the first box of oil and subsequent boxes of oil.

3.3.2 Install the Oil Reservoir

Remove the original lid from the oil container and foil liner. Replace with the provided cap, which has connected suction hardware. Ensure the feeder tube from the cap reaches to the bottom of the oil container.

Place the oil container inside the cabinet and slide it into place (as shown on the following page). Avoid catching the suction hardware on the cabinet interior as the container is placed in the fryer.

The system is now ready for operation. As the fryer heats to preprogrammed temperatures, the system will energize and then slowly add oil to the frypot as needed, until the oil reaches an optimal level.

3.3.3 Routine Oil Changes

When the oil reservoir level is low, the Oil Butler[®], a yellow LED, is activated (see Figure 4). Once the reservoir is refilled and/or replaced, pressing the reset button above the JIB turns the LED off.



Figure 1





Figure 3



1. Open the cabinet and slide the JIB from the cabinet (see Figure 5).



2. Remove the cap and pour any remaining oil in the container into all fry vats equally (see Figure 6).



Figure 6

3. With the jug upright remove the cap 4. Put the tube in the new full container (see Figure 8). and foil seal (see Figure 7).



Figure 7





- 5. Slide the JIB onto the shelf inside the fryer cabinet (as seen in Figure 5).
- 6. Press the JIB reset switch to turn the yellow JIB LED off (see Figure 9).



Figure 9

3.3.4 Bulk Oil Systems

If using a bulk oil system, see manufacturer's instructions for filling JIB and oil disposal.

WARNING: Do not add HOT or USED oil to a JIB.

PROTECTOR[®] SERIES ELECTRIC FRYERS CHAPTER 4: CM7 COMPUTER INSTRUCTIONS



4.1 CM7 General Information

Welcome to the CM7, a computer that has one-button cooking and the utility of 40-product menu capability. The computer is easy to use. One button push starts a cook cycle for an item cooked in a dedicated vat. The same flexible computer on a multi-product vat requires only two button pushes to have a same flexible computer on a multi-product vat requires only two button pushes to

launch a cook cycle. Just choose a menu item on a product buttons and press, and then press a cook cycle button under the display showing the desired item. The computer can move seamlessly from Chicken Strips to Crispy Chicken to any added menu item.

In dedicated mode, the CM7 will display FR FRIES (shown above) and will launch a cook cycle with one push of a cook channel button. In multi-product mode (shown right), the LED display shows dashed lines. To launch a cook cycle, press a product button and then press the cook cycle button that corresponds with the location of the dropped



Pressing assigned product buttons displays products.



Pressing either cook cycle button under the **CHK STRP** displays launches a cook cycle.

basket. By pressing the product button for Chicken Strips, **CHK STRP** appears in the display. Just press the cook cycle button corresponding to the location of the appropriate dropped basket.

Basic Operation



4.3 Cooking with Multi-Product Display

Cooking With Multi-Product Display



Cooking With Dedicated Display



- 1 A menu item, such as FR FRIES shows in display
- FR FRIES

1

- 2 Press a cook channel button to begin the cook cycle.
- 3 Display alternates between abbreviated product name and remaining cook time.
- 4 Shak is displayed when it is time to shake the fry basket.
- 5 Press cook channel button to cancel alarm.
- 6 Cook is displayed when the cook cycle is complete.
- 7 Press cook channel button to cancel alarm.



1

SHAK

1

- 8 H1 is displayed and alternates with FRIS. As the quality time counts down.
- **9** Pressing the cook channel button now will launch a cook cycle and end the quality countdown.
- **10** Hold is displayed when the quality time has elapsed.
- 11 Pressing the cook channel button restores the display to FR FRIES and the unit is ready for cooking.

- $H1 \rightarrow FRIS$
- H1 == FRIS



HOLD



4.5 Changing from Breakfast Setup to Lunch

Changing from Breakfast Setup to Lunch



Change both displays to FR FRIES

4.6 Changing from Lunch Setup to Breakfast

Changing from Lunch Setup to Breakfast



5

- 1 Computer displays **F**
 - FR FRIES
- **2** Press and quickly release product button for hash browns.



- 3 Computer display will change from FR FRIES to HASH BRN; a beep sounds.
- $\begin{array}{c} \mathsf{FR} \quad \mathsf{FR} \mathsf{IES} \\ \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \\ \mathsf{HASH} \quad \mathsf{BRN} \end{array}$
- 4 Press and hold the cook channel button under the display until a beep is heard.

Display changes to

Hash Brn.

HASH BRN

4.7 CM7 Button Description and Functions

4.7.1 Navigation Buttons

The menu on the CM7 uses \checkmark and \checkmark buttons to navigate the various menus and submenus (see Figure 1).

When programming, the left screen shows a menu or submenu item. The right screen is for data entry. Data is entered with alpha-numeric characters, scrolling through lists or by toggling between choices.

During programming, if a button is not pushed within one minute, the computer returns to operation mode.

4.7.2 Temperature and Unlock Buttons

The **TEMP** button (see Figure 1), if pressed once while the fryer is on, displays current vat temperature on both sides. If the **TEMP** button is pressed twice, it shows the setpoint temperatures of the vats. If the fryer is off, the display shows the current versions of software. The **UNLOCK** button (see Figure 1), if pressed once while the fryer is on, shows the recovery time for each vat from the last test. Recovery displays 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). If the fryer is off, pressing the unlock button once allows access to Program Mode; pressing twice allows access to Manager Mode and pressing three times allows access to Tech Mode.

4.7.3 Cook Cycle and Selection Buttons

The \checkmark and \bigstar buttons are dual-function buttons shared with the number **1** and **2** buttons. They are located directly below the LED displays (see Figure 2). Use these buttons to select or cancel functions. The \bigstar button is used to back out of submenus.



4.7.4 Melt Cycle and Cooking Displays

Once the computer is switched on, it displays $\Box U \Box L$ during melt cycle until the oil reaches 180°F (82°C). The display changes to $L O U T E \Pi P$ until setpoint is reached. Once setpoint is reached, the computer will display dashed lines or the product name



4.8 CM7 Menu Summary Tree

Reflected below are the major programming sections in the CM7 and the order in which submenu headings will be found under the sections in the Installation and Operation Manual.

Adding New Product Menu Items	See section 4.10.2
Storing Product Menu Items in Product Buttons	See section 4.10.3
Temperature Conversion from F° to C°	See section 4.10.4

CM7 Programming Menu

Programming
Program Mode 4.11
[With the fryer OFF, press the UNLOCK button once, displays $PRUGRHII$. Press the \checkmark . Enter 1650]
— Setpoint Temperature 4.11.1
Product Selection 4.11.2
Cook Time
Cook ID
Shake Time
Filt After
Assign Btn
Boil Out Mode
Manager Mode 4.12 [With the fryer OFF, press the UNLOCK button twice, displays MANAGER. Press the ✓. Enter 4321] E-Log Alert Tone
L Tone 1-3
Tech Mode4.9 [With the fryer OFF, press the UNLOCK button three times, displays <i>TECH</i> . Press the ✓. Enter 7378] Setup
└── Fryer Setup

4.9 Setup Mode Programming

The computer, upon initial power up or when accessed from Tech Mode, enters setup mode. These parameters need to be set to allow the computers functions to operate correctly. The setup sets the time, date, date format, language, fryer type, vat type, oil system type and the temperature format. These settings should only be changed by a technician.

On initial power up the computer displays **OFF**

- 1. Press either soft power button (see Figure 3) or with the computer **DFF**, enter Tech Mode by pressing the **UNLOCK** button three times (see Figure 4).
- 2. The computer displays **TECH** if initially powering up the computer or if entering setup through Tech Mode. Press the \checkmark (1) button to continue (see Figure 5).

The computer displays **CODE**.

3. Enter **7378 (SERV)** (see Figure 6).

The computer displays **TECH MODE** changing to SETUP.



4. Press the \checkmark (1) button to continue (see Figure 7).

Computer displays **TIME FORMAT** with format on the right.

- 5. Use the \triangleleft and \triangleright buttons (see Figure 8) to toggle between **24HR** and 12 H R.
- 6. With the desired selection displayed, press the \checkmark (1) button (see Figure 9).

The computer displays **ENTER TIME** on the left and **HH:M** on the right.

Example: 7:30 AM is entered 0730 if using the 12 hour format. 2:30 is entered 1430 if using 24 hour format.

7. Enter time in hours and minutes using the number buttons 0-9 (see Figure 10).













8. With the desired selection displayed, press the ✓ (1) button (see Figure 11).

The computer displays **ENTER TIME** on the left and **A** \square on the right if 12 hours system is chosen.

- 9. Use the \blacktriangleleft and \blacktriangleright buttons (see Figure 12) to toggle between \square and \square and \square .
- 10. With the desired selection displayed, press the ✓ (1) button (see Figure 13).

The computer displays **DATE FORMAT** on the left and **US** on the right.

11. Use the ◀ and ▶ buttons (see Figure 14) to toggle between US and INTERNTL.

The computer displays **ENTER DATE** on the left and **MM-DD-YY OR DD-MM-YY** on the right.

Example: US Format – Mar. 15, 2007 is entered as 031507. International Format – 15 Mar. 2007 is entered as 150307)

- 12. Enter the date using the number buttons 0-9 (see Figure 15).
- 13. With the desired selection displayed, press the ✓ (1) button (see Figure 16).

The computer displays **LANGUAGE** on the left and **ENGLISH** on the right.

14. Use the ◀ and ▶ buttons to scroll through the language menu (see Figure 17).

Current languages supported by the CM7 are: English, French, French Canadian, Spanish, Portuguese, German and Swedish.

15. With the desired selection displayed, press the ✓ (1) button (see Figure 18).

The computer displays **FRYER TYPE** on the left and **ELEC** on the right.















- 16. Use the ⁴ and [▶] buttons (see Figure 19) to toggle between ELEC and GRS.
- 17. With the desired selection displayed, press the ✓ (1) button (see Figure 20).

The computer displays **VAT TYPE** on the left and **SPLIT** on the right.

- 18. Use the ⁴ and [▶] buttons (see Figure 21) to toggle between **SPLIT** and **FULL**.
- 19. With the desired selection displayed, press the ✓ (1) button (see Figure 22).

The computer displays **OIL SYSTE n** on the left and **JIB** on the right.

- 20. Use the ◀ and ▶ buttons (see Figure 23) to toggle between JIB and BULK.
- **NOTE:** A **JIB** system uses a disposable JIB (Jug in a Box). A **BULK** system has large storage oil tanks that are connected to the fryer.
- 21. With the desired selection displayed, press the ✓ (1) button (see Figure 24).

The computer displays **TEMPERATURE** on the left and **F** on the right.

- 22. Use the ◀ and ▶ buttons (see Figure 25) to toggle between F and C temperature scales.
- **NOTE: F** is used for Fahrenheit, **C** is used for Celsius.
- 23. With the desired selection displayed, press the \checkmark (1) button (see Figure 26).

The computer displays FRYER SETUP for three seconds then OFF.

Figure 19















4.10 CM7 Common Tasks

Covered in this section are common tasks used in stores:

- 1. Escaping out of a menu or sub-menu.
- 2. Adding new product items.
- 3. Storing menu items in product buttons.
- 4. Temperature conversion from F to C.

4.10.1 Escape Menu Items

To escape from **MENUS** or **SUB-MENUS**, press the **×** (2) button (Figure 27).

4.10.2 Adding New Product Items to the Menu

To add a new product to the menu:

1. With the computer **OFF**, enter Program mode by pressing the **UNLOCK** button once (see Figure 28).

The computer displays **PROGRAM**.

2. With the desired selection displayed, press the \checkmark (1) button (see Figure 29).

The computer displays **ENTER CODE** and sounds an audible alert.

3. Enter **1650** (see Figure 30).



4. Press the \checkmark (1) button to continue (see Figure 31).

Computer displays **TE n P** on the left and a temperature on the right.

5. Enter the desired cooking temperature using the number buttons 0-9 (see Figure 32).





igure 31









0

5

6

1

6. With the desired temperature entered, press the ▼ button (see Figure 33) two times to lock in the setpoint and continue.

The computer displays **PRODUCT SELECTION**.

 With PRODUCT SELECTION displayed, press the ✓ (1) button (see Figure 34).

Computer displays **PRODUCT SELECTION** changing to **SELECT PRODUCT**.

- 8. With SELECT PRODUCT displayed on the left and PROD 1 displayed on the right use the button (see Figure 35) to advance through menu items until the right display displays the menu item to be modified or the desired location for a new product.
- 9. Press the \checkmark (1) button to select the product to modify (see Figure 36).

The computer displays **MODIFY** alternating with **YES NO**.

10. Press the \checkmark (**1 4 E 5**) button (see Figure 37).

The left display displays **NANE** and the right display displays a product name (ex. **PROD** 1). The right display shows a blinking cursor alternating with a blinking letter under the first character.

11. Using the number keys, enter the first letter of the new product (see Figure 38). Press the key until the desired letter appears.

12. Press the ▶ button to advance the cursor to the next display space (see Figure 39). Use the #0 key to insert a space. The ▲ button can be used to move the cursor back.

For example, to enter "UINGS", press the #8 key two times until U appears in the display. Then use the \blacktriangleright button to advance the cursor to the next display space. Press the #3 key until I appears. Continue on until UINGS is spelled out on the display. Use no more than eight letters.

- 13. With the name entered, press the ▼ button (see Figure 40) to save the name and scroll to **COOK TIME**.
- 14. With **COOK TIME** displayed on the left and :**OO** or a previously entered cook time displayed on the right, use the number keys (see Figure 41) to enter the product cook time in minutes and seconds (ex. 3:00 as 300).







Figure 33



Figure 39





- 15. Press the ▼ button (see Figure 42) to save the **COOK** TIME and scroll to the **COOK** ID.
- 16. A blinking **P 1** is displayed on the right. Follow the instructions in step eleven to enter a fourletter name for the products which alternates with the cook time during a cook cycle.
- 17. Press the ▼ button (see Figure 43) to save the cook ID abbreviation and scroll to the **SHRKE TIME**, which is used to set the time in the cook cycle the product should be shaken.
- 18. Use the number keys (see Figure 44) to enter the elapsed time in minutes and seconds, before a shake is required.
- 19. Press the ▼ button (see Figure 45) to save shake time and scroll to HOLD TIME. Hold time is the amount of time a product should be held before being discarded.
- 20. Use the number keys (see Figure 46) to enter the time in minutes and seconds the product should be held before discarding. (ex. If the product requires discarding after 10 minutes, enter 1000).
- 21. Press the ▼ button (see Figure 47) to save hold time and scroll to FILT RFTER. Filt after is the number of cook cycles before a filter prompt.
- 22. Use the number keys (see Figure 48) to enter the number of cook cycles before the fryer prompts for filtration. (ex. If the product requires filtration after every six cook cycles, enter 6).
- **NOTE:** Setting the **FILT AFTER** to "**0**" will disable filtration prompts.
- 23. Press the ▼ button (see Figure 49) to save **FILT AFTER** and scroll to **SENSITIVITY**.

Sensitivity is a built-in feature, which adjusts cooking time to compensate for the drop in frypot temperature when a product enters the oil. Different products vary in density, batch size, and temperature. Food products will also vary in cook time. A proper sensitivity setting will assure a high-quality product. Setting zero is the least sensitive and setting nine is the most sensitive. The default setting is 0. Some menu items may need an adjustment, depending on their cooking characteristics. A chart is provided on page 4-21 to assist in choosing a sensitivity setting. It is meant as a guide only and the settings may be changed to suit different needs. Use caution when changing sensitivity, as it could have an adverse affect on the products cooking cycles.

5 6 7 8 9 MNO POR STU VWX YZ-Figure 44

Figure 45







Figure 43





- 24. With **SENSITIVITY** displayed on the left and **O** displayed on the right, use the number keys (see Figure 49) to enter a number between 0-9.
- 25. Press the ▼ button (see Figure 50) to save sensitivity and scroll to **ASSIGN BTN**.
- 26. Press and hold for three seconds an unassigned button between 1-0 to assign the product. The LED in the chosen product button will illuminate (see Figure 51). To unassign a product from a button, press and hold the button assigned to that product for three seconds. The LED no longer illuminates.
- 27. Press the \checkmark button (see Figure 52) to save the assigned button.

The computer displays **NAME** on the left with the product (ex. **UINGS**) on the right.

- * Note: If additional programming, to add other products, is necessary press the (2) button (see Figure 53) once and then the button (see Figure 54) and return to step 8.
- 28. If no further programming is necessary, press the \times (2) button three times (see Figure 55). The computer displays **OFF**.

4.10.3 Storing Menu Items in Product Buttons

This function is used to store individual menu items in product buttons for one or two button cooking.

To store menu items to a specific button:

- 1. Perform steps 1-10 on pages 4-12 thru 4-13.
- 2. The computer displays **NAME** on the left and the selected product (ex. **WINGS**) on the right.
- 3. Press the **^** button (see Figure 56) to scroll to the **ASSIGN BTN** option used to assign a menu item to a specific product button.
- 4. The computer displays **ASSIGN BTN** on the left and **UINGS** on the right.
- 5. Press and hold for three seconds a button between 1-0 to assign the product. The LED in the chosen product button will illuminate (see Figure 57). To unassign a product from a button, press and hold the button assigned to that product for three seconds. The LED no longer illuminates.



Figure 50

11

Figure 51













OMPUTER MAGIN





6. Once the button is assigned, press the ▼ button (see Figure 58) to save the assigned button.

The computer displays **NANE** on the left with the product (ex. **WINGS**) on the right.

- 7. If no further programming is necessary, press the **★ (2)** button (see Figure 59) twice to return to **SETPOINT TEMPERATURE** prompt.
- 8. Press the \times (2) button again to exit and to return to **OFF** (see Figure 60).

4.10.4 Temperature conversion from F° to C°.

1. With the computer **OFF**, enter Tech mode by pressing the **UNLOCK** button three times (see Figure 61).

The computer displays **TECH**

2. With the desired selection displayed, press the \checkmark (1) button (see Figure 62).

The computer displays **CODE** and sounds an audible alert.

3. Enter **1658** (see Figure 63).

Switch computer on to see if temperature scale changed. If not, repeat steps 1-3.

4.11 Boil-Out Mode

Before the fryer is first used, it should be boiled out to ensure that residue from the manufacturing process has been eliminated. Also, after the fryer has been in use for a period of time, a hard film of caramelized oil will form on the inside of the frypot. This deposit must be periodically removed to maintain your fryer's efficiency.

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

- 1. Drain the frypot in accordance with Section 5.1 (page 5-1), but do not refill with cooking oil.
- 2. After draining the frypot, clean all food particles and residual oil from the frypot and filter pan (if so equipped). BE CAREFUL, this material may still cause severe burns if it comes in contact with bare skin.
- 3. Close the drain valve securely and fill the frypot with a solution of automatic dishwasher detergent (or commercially available boil-out solution) and cold water to the bottom OIL-LEVEL line.













Never leave the fryer unattended during the boil-out process. If the boil-out solution boils over, press and hold the x (2) button for five seconds, then release the button to cancel boil-out immediately and let the solution cool for a few minutes before resuming the process.

5. With the computer **OFF**, press the **UNLOCK** button once (see Figure 64).

The computer displays **PROGRAM**.

6. Press the \checkmark (1) button (see Figure 65).

The computer displays **ENTER CODE** and sounds an audible alert.

7. Enter **1650** (see Figure 66).

The computer displays **PROGRAM MODE** changing to SETPOINT TEMPERATURE.

8. Press the ▼ button to scroll to **BOIL-OUT MODE** (see Figure 67).

9. Press the \checkmark (1) button to continue (see Figure 68).

The computer displays **BOIL OUT**, alternating with **YES NO**.

10. Press the \checkmark (1 **YE5**) button to continue the boil out process (see Figure 69).

Ensure the frypot is filled with a mixture of cold water and detergent before starting boil-out.

The computer displays **STRT BOIL**, alternating with **YES NO**.

11. Press the \checkmark (1 **YES**) button to start boil-out (see Figure 70).

The computer displays **BOILOUT** on both sides. The fryer heats to 195°F (91°C).

- 12. Let the solution simmer for one hour. Do not allow the water level to drop below the bottom oillevel line in the frypot during the boil-out operation.
- 13. Press and hold the **× (2)** button for five seconds. Release the button to cancel boil-out when it is finished. The fryer turns OFF. Drain the solution and close the drain valve.



Fiaure 65

(1650)









Figure 66

1

6

5





0

Allow the solution to cool to 100°F (38°C), then drain into a METAL stockpot or similar METAL container. When draining is finished, close the fryer drain valve securely.

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

\rm MARNING

Do not drain boil-out solution into a shortening disposal unit (SDU), a built-in filtration unit, or a portable filter unit. These units are not intended for this purpose, and will be damaged by the solution.

- 15. Add two gallons (7.6 liters) of water. Drain out the solution and clean the frypot(s) thoroughly.
- 16. Refill the frypot(s) with clean water. Rinse the frypot(s) twice, drain and dry with a clean towel. Thoroughly remove all water from the frypot and elements before refilling the frypot with oil.

▲ DANGER Ensure that the frypot is completely 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.

4.11.1 Clean Filter Pan, Detachable Parts and Accessories

As with the frypot, a deposit of carbonized oil will accumulate on the filter pan and detachable parts and accessories such as baskets, sediment trays, or fish plates.

Wipe the filter pan and all detachable parts and accessories with a clean cloth dampened with a detergent solution (or the parts can be run through a dishwasher). Rinse and thoroughly dry each part. DO NOT use steel wool or abrasive pads to clean these parts. The scratches that result from such scrubbing make subsequent cleanings more difficult.

Use a commercial-grade cleaner formulated to effectively clean and sanitize food-contact surfaces. Read the directions for use and precautionary statements before use. Particular attention must be paid to the concentration of cleaner and the length of time the cleaner remains on the food-contact surfaces.

4.12 Manager Mode

1. With the computer **OFF**, press the **UNLOCK** button twice (see Figure 71).

The computer displays $\mathbf{NRNRGER}$ and sounds an audible alert.

2. Press the \checkmark (**1**) button (see Figure 72).

The computer displays **ENTER CODE** and sounds an audible alert.

3. Enter **4321** (see Figure 73).

The computer displays MANAGER MODE changing to E-LOG.

The E-LOG mode is used to view the ten most recent error codes encountered on the fryer. These codes are displayed from 1-10 with the most recent displayed first. The time, date and error code are displayed.

4

3 🗌

2

Figure 73

1

- 4. Press the \checkmark (**1**) button to accept selection (see Figure 81).
- 5. Use the \wedge and \checkmark buttons to scroll through the ten most recent error codes.

If no errors exist, the computer displays **NO ERROR5**. Errors are displayed by error code, time and date.

Error Codes:

- E01 Right Remove Discard
- E02 Left Remove Discard
- E03 Probe Failure Call Technician
- E04 Hi Limit 2 Call Technician
- E05 Hot Hi 1 Call Technician
- E06 Ignition Failure Call Technician
- 6. Press the \times (2) button (see Figure 75) once.

The computer displays **ALERT TONE**.

The alert tone mode allows a manager to adjust the volume to nine levels and the tone is adjustable to three frequencies. One of three audio frequencies may be chosen to distinguish fryers in kitchens with multiple fryers.

4 - 19

7. Press the \checkmark (**1**) button (see Figure 76).

Computer displays **VOLUME 1-9**.



Fiaure 75



(4321)





8. Press the \checkmark (**1**) button (see Figure 77).

The computer displays *VOLUME* 1-9 on the left and 1 on the right.

- 9. Use the number keys to set volume level (see Figure 78). Select from nine levels of volume with 0 being off, 1 the softest and 9 the loudest.
- Press the ▼ UNLOCK button to accept the selection and to scroll to TONE
 1-3 (see Figure 79).
- Computer displays **TONE 1-3**.
- 11. Press the \checkmark (1) button (see Figure 80).

The computer displays **TONE 1-3** on the left and 1 on the right.

- 12. Use the number keys, to set the tone frequency (see Figure 81). Select from three different frequencies.
- 14. Press the **× (2)** button again (see Figure 83) to quit and to return to **OFF**.



Figure 79



Figure 78





Figure 81



4.13 SENSITIVITY SETTINGS CHART

Product	350° F/176° C	Sensitivity Setting
Chicken	:	<u> </u>
chicken fillet, 1 ¼ oz.	3:25	5
chicken fillet (frozen), 4 oz.	4:20	5
chicken patty (frozen), 5 oz.	6:15	5
frozen chicken		5
fresh chicken, 9 pieces		5
Potatoes		•
steak fries	3:43	5
regular fries, 1/2-inch	3:16	5
shoestrings, 1/4-inch	1:50	5
shoestrings, 3/8-inch	2:40	5
tater tots	2:05	5
hash browns	2:05	5
farm fries	1:14	5
Seafood		
crab cakes	4:00	3
clam cakes	4:00	3
large scallops	3:25	3
small scallops	1:10	3
shrimp (35 to a lb.)	2:15	3
shrimp (40 to 75 to a lb.)	1:45	3
shrimp (75 to 100 to a lb.)	1:10	3
cod, 2 ½ oz.	3:25	7
flounder fillet, 7 oz.	4:35	3
flounder, whole, 10-12 oz.	6:25	3
cod fillet, 3 ¹ / ₂ oz.	4:35	7
perch, 5 oz.	4:30	3
haddock, 7 oz.	6:25	7
clams	2:00	3
oysters	1:10	4
strip clams (fresh)	0:35	4
strip clams (frozen)	0:45	4
Vegetables		
okra	4:30	4
eggplant	4:00	4
zucchini	3:00	4
mushrooms	3:45	4
onion rings (frozen)	3:00	4
cauliflower	1:45	4
Other		
corn dogs		4
chicken fried steak patty	5:00	5

Sensitivity Settings for Various Products

Note: This chart is provided to assist in choosing a sensitivity setting. It is meant as a guide only and the settings may be changed to suit different needs.

PROTECTOR® SERIES ELECTRIC FRYERS CHAPTER 5: FILTRATION INSTRUCTIONS

\rm 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.

5.1 Draining and Manual Filtering

Draining and filtering of oil must be accomplished with care to avoid the possibility of a serious burn caused by careless handling. The oil to be filtered is at or near 350°F (177°C). Ensure all hoses are connected properly and drain handles are in their proper position before operating any switches or valves. Wear all appropriate safety equipment when draining and filtering oil.

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

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.

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

Oil must be drained into the filter pan, SDU or another suitable **METAL** container. (For safe, convenient draining and disposal of used oil, Frymaster recommends using the Frymaster Shortening Disposal Unit (SDU). The SDU is available through your local distributor.)

- 1. Turn the fryer power switch to the **OFF** position.
- 2. Remove the filter pan and position a **METAL** container with a sealable cover under the drainpipe. The **METAL** container must be able to withstand the heat of the oil and hold hot liquids. If you intend to reuse the oil, Frymaster recommends that a Frymaster filter cone holder and filter cone be used when a filter machine is not available. If you are using a Frymaster filter cone holder, be sure that the cone holder rests securely on the metal container.
- 3. Open the drain valve slowly to avoid splattering. If the drain valve becomes clogged with food particles, use the Fryer's Friend (poker-like tool) to clear the blockage.

NEVER attempt to clear a clogged drain valve from the front of the valve! Hot oil will rush out creating the potential for severe burns.

\rm DANGER

DO NOT hammer on the drain valve with the cleanout rod or other objects. Damage to the ball inside will result in leaks and will void the Frymaster warranty.

- 4. After draining the oil, clean all food particles and residual oil from the frypot. BE CAREFUL, this material may still cause severe burns if it comes in contact with bare skin.
- 5. Close the drain valve securely and fill the frypot with clean, filtered or fresh oil to the bottom OIL-LEVEL line.

5.2 Preparing the Built-In Filtration System for Use

The FootPrint Pro filtration system allows the oil in one frypot to be safely and efficiently filtered while the other frypots in a battery remain in operation. The FootPrint Pro filtration system is available in three different configurations:

- Filter Paper includes crumb tray, large hold-down ring, and metal filter screen.
- Filter Pad includes crumb tray, small hold-down ring, and metal filter screen.
- Magnasol Filter includes crumb tray and Magnasol filter assembly.

Section 5.2.1 covers preparation of the Filter Paper and Filter Pad configurations for use. Refer to Section 5.2.2 for instructions on preparing the Magnasol Filter configuration for use. Operation of all three configurations is the same and is covered in section 5.3. Disassembly and reassembly of the Magnasol filter is covered in section 5.4.

5.2.1 Preparation for Use with Filter Paper or Filter Pad

1. Pull the filter pan out from the cabinet and remove the crumb tray, hold-down ring, filter paper and filter screen. (See Figure 1) Clean all components with a solution of detergent and hot water, then dry thoroughly.

The pan cover must not be removed except for cleaning, interior access, or to allow a shortening disposal unit (SDU) to be positioned under the drain. If using an SDU built before January 2004 see instructions on page 5-8.

- 2. Inspect the filter pan connection fitting to ensure that both O-rings are in good condition. (See Figure 2)
- 3. Then in reverse order, place the metal filter screen in the center of the bottom of the pan, then lay a sheet of filter paper on top of the screen, overlapping on all sides. (See Figure 1) If using a filter pad, ensure the rough side of the pad is up and lay the pad over the screen, making sure that the pad is in between the embossed ridges of the filter pan.
- 4. Position the hold-down ring over the filter paper and lower the ring into the pan, allowing the paper to rest on the sides of the filter pan. (See Figure 3)



Figure 1



Figure 2



Figure 3

5. When the hold-down ring is in position, if using filter paper, sprinkle one packet of filter powder evenly over the paper. (See Figure 4)

If using a <u>filter pad</u>, position the hold down ring on top of the pad. <u>DO NOT</u> <u>use filter powder with the pad</u>.



Figure 4

6. Replace the crumb tray in the filter pan, then push the filter pan back into the fryer, positioning it under the drain.

5.2.2 Preparation for Use with the Magnasol Filter Assembly

1. Pull the filter pan out from the cabinet and remove the crumb tray and Magnasol filter assembly (see Figure 5). Clean as directed in section 5.4

The pan cover must not be removed except for cleaning, interior access, or to allow a shortening disposal unit (SDU) to be positioned under the drain.

NOTE: Refer to Section 5.4 for instructions on how to disassemble and reassemble the Magnasol filter screen assembly.

- 2. Inspect the fitting on the bottom of the Magnasol filter assembly to ensure that the O-ring is present and in good condition. (See Figure 6)
- 3. Inspect the filter pan connection fitting to ensure that both O-rings are present and in good condition. (See Figure 7)



Figure 5



Figure 7

- 4. Replace the Magnasol filter assembly in the filter pan, ensuring that the fitting on the bottom of the assembly is securely seated in the port in the bottom of the pan. Sprinkle one packet of the Magnasol XL filter powder evenly over the screen.
- 5. Replace the crumb tray, and then push the filter pan back into the fryer, positioning it all the way to the back of the cabinet.

5.3 Operation of the Filter

After a preset amount of cook cycles the computer will automatically display **FLTR NOU** alternating with **YE5 NO**.

1. Press the \checkmark (1) button to continue (see Figure 8).

The computer displays **CNF FLTR** alternating with **YES NO**.

2. Press the \checkmark (1) button to continue (see Figure 9).



A DANGER

Draining and filtering of oil must be accomplished with care to avoid the possibility of a serious burn caused by careless handling. The oil to be filtered is at or near 350°F (177°C). Ensure drain handles are in their proper position before operating any switches or valves. Wear all appropriate safety equipment when draining and filtering oil.

- 3. Ensure that the filter is prepared. See Sec. 5.2.
- 4. Make sure the oil is at operating temperature.
- Drain the frypot into the filter pan by rotating the drain valve handle 90° (see Figure 10). If necessary, use the *Fryer's Friend* clean-out rod to clear the drain from **inside** the frypot.



Figure 10

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.

NEVER attempt to clear a clogged drain valve from the front of the valve! Hot oil will rush out creating the potential for severe burns.

DO NOT hammer on the drain valve with the cleanout rod or other objects. Damage to the ball inside will result in leaks and will void the Frymaster warranty.

- 6. After the oil has drained from the frypot, turn the filter handle to the ON position to start the pump and begin the filtering process. There may be a slight delay before the pump activates (see Figure 11).
- 7. The filter pump draws the oil through the filter medium and circulates it back up to and through the frypot during a 5-minute process called polishing. Polishing cleans the oil by trapping solid particles in the filter medium.
- 8. After the oil is filtered (about 5 minutes), close the drain valve and allow the fryer to refill. Let the filter pump run 10 to 12 seconds after the oil begins to bubble. Turn the filter off.

The computer displays **FILTER DONE** alternating with **YES NO**.

9. Press the \checkmark (1) button when filtration is finished (see Figure 12).

The computer displays **OFF**.

WARNING The filter pump 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).

Filter Pump Reset Switch

Use caution and wear appropriate safety equipment when resetting the filter pump 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 the frypot.





- 10. Lower the elements into the frypot and reinstall the basket support rack if raised for cleaning.
- 11. Ensure the drain valve is fully closed. (If the drain valve is not fully closed, the fryer will not operate.) Turn the fryer ON and allow the oil to reach setpoint.

The crumb tray in fryers equipped with a filter system must be emptied into a fireproof container at the end of frying operations each day. Some food particles can spontaneously combust if left soaking in certain shortening material.

Do not bang fry baskets or other utensils on the fryer's joiner strip. The strip is present to seal the joint between the fry vessels. Banging fry baskets on the strip to dislodge shortening will distort the strip, adversely affecting its fit. It is designed for a tight fit and should only be removed for cleaning.

5.4 Disassembly and Reassembly of the Magnasol Filter

Dissassembly

1. Grasp the frame with your thumbs on the handles at the corner of the assembly and pull outward in opposite directions to separate the frame at the corner. Continue to open the frame (it will pivot at the opposite corner) until the outer screens and grid can be removed from the frame.



2. Separate the outer screens and grid.

<u>Cleaning</u>

1. Clean the two frame pieces, outer screens, and grid using a good quality degreaser and hot water from a spray nozzle. The groove in the seal frame pieces can be cleaned with the edge of a Scotch-BriteTM or similar cleaning pad.

- 2. At each scheduled boil-out, disassemble the leaf filter assembly and place in the frypot being boiled out. Follow the boil-out procedure in Section 6.3.2 of this manual.
- 3. Allow all filter assembly components to air dry or thoroughly dry with clean towels before reassembling.

Reassembly

- 1. Place the two outer screens together and align their edges (see illustration below).
- 2. Insert the screens into one of the frame halves (it doesn't matter which one). Ensure that the fitting in the bottom screen is on the opposite side of the frame from the handle.
- 3. Slip the grid between the screens, ensuring that the grid is centered between the edges of the screens.
- 4. Connect the other half of the frame at the corner opposite the handles and pivot the frame onto the free edges of the screen.



5.5 Draining and Disposing of Waste Oil

When cooking oil is exhausted, drain the oil into an appropriate **METAL** container for transport to the disposal container. Frymaster recommends the use of the Frymaster Shortening Disposal Unit (SDU). **NOTE:** If using an SDU built before January 2004 the filter pan cover must be removed to allow the unit to be positioned beneath the drain. To remove the lid, lift up on the front edge and pull it straight out of the cabinet. Refer to the documentation furnished with your disposal unit for specific operating instructions. 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** stockpot or similar **METAL** container. When draining is finished, close the fryer drain valve securely.

\rm DANGER

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

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

5.6 Using the "Optional" Oil Disposal

If the fryer is fitted with the optional oil disposal, ensure the filter pan is clean and ready for filtering. DO NOT discharge oil through a dirty or incomplete filter pan.

- 1. Ensure the oil is at operating temperature.
- 2. Turn the fryer off. Wear protective clothing and use caution. Hot oil can cause serious injury.
- 3. Open the drain valve of the frypot with oil to be discarded. Drain only one frypot at a time.
- 4. With the frypot drained and the oil to be discarded in the filter pan, close the drain valve. Ensure all other drain valves and oil-return valves are closed.
- 5. Ensure the oil disposal reservoir is not full and the fryer is properly connected to the oil disposal system.
- 6. Discharge the oil by engaging the discharge valve handle. The filter pump will come on and the oil will be pumped from the filter pan. Turn the pump off by disengaging the discharge valve handle when the filter pan empties. Repeat steps 1-6 if necessary to discharge the oil from other frypots. DO NOT discharge water or other liquids through the filter system.
- 7. Refill the fryer with fresh oil.

PROTECTOR[®] SERIES ELECTRIC FRYERS CHAPTER 6: PREVENTATIVE MAINTENANCE

6.1 FRYER PREVENTATIVE MAINTENANCE CHECKS AND SERVICE

\rm DANGER

The crumb tray in fryers equipped with a filter system must be emptied into a fireproof container at the end of frying operations each day. Some food particles can spontaneously combust if left soaking in certain shortening material.

\rm DANGER

Never attempt to clean the fryer during the frying process or when the frypot is filled with hot oil. If water comes in contact with oil heated to frying temperature, it will cause spattering of the oil, which can result in severe burns to nearby personnel.

\rm MARNING

Use a commercial-grade cleaner formulated to effectively clean and sanitize food-contact surfaces. Read the directions for use and precautionary statements before use. Particular attention must be paid to the concentration of cleaner and the length of time the cleaner remains on the food-contact surfaces.

6.2 DAILY CHECKS AND SERVICE

6.2.1 Inspect Fryer and Accessories for Damage

Look for loose or frayed wires and cords, leaks, foreign material in frypot or inside cabinet, and any other indications that the fryer and accessories are not ready and safe for operation.

6.2.2 Clean Inside and Outside of the Fryer Cabinet

Clean inside the fryer cabinet with a dry, clean cloth. Wipe all accessible metal surfaces and components to remove accumulated oil and dust.

Clean outside the fryer cabinet with a clean, damp cloth soaked with detergent. Wipe with a clean, damp cloth.

6.2.3 Clean the Built-in Filtration System Daily



There are no periodic preventive maintenance checks and services required for your FootPrint Pro Filtration System other than daily cleaning of the filter pan and associated components with a solution of hot water and detergent.

If you notice that the system is pumping slowly or not at all, verify that the filter pan screen is on the bottom of the filter pan, with the paper on top of the screen. (If the unit is equipped with a Magnasol filter screen rather than with the standard screen and paper system, verify that the O-ring on the bottom fitting of the screen in present and in good condition.) Verify that the two O-ring(s) on the fitting at the right front of the filter pan are present and in good condition.

6.3 WEEKLY CHECKS AND SERVICE

6.3.1 Clean Frypot and Heating Elements

▲ DANGER Never operate the appliance with an empty frypot. The frypot must be filled to the fill line with water or oil before energizing the elements. Failure to do so will result in irreparable damage to the elements and may cause a fire.

6.3.2 Boiling Out the Frypot

After the fryer has been in use for a period of time, a hard film of caramelized oil will form on the inside of the frypot. This deposit must be periodically removed to maintain your fryer's efficiency. See section 4.11 page 4-16 for instructions on boiling out the frypot.

6.4 MONTHLY CHECKS AND SERVICE

6.4.1 Check Computer Magic 7 Set Point Accuracy

(This check applies only to units equipped with Computer Magic 7 Controllers.)

- 1. Insert a good-grade thermometer or pyrometer probe into the oil, with the end touching the fryer temperature-sensing probe.
- 2. When the computer display shows a series of four dashes "----" with no dot between the first and second dashes (indicating that the frypot contents are within the cooking range), press the switch once to display the temperature of the cooking oil as sensed by the temperature probe.
- 3. Press the 🛽 switch twice to display the set point.
- 4. Note the temperature on the thermometer or pyrometer. All three readings should be within \pm 5°F (2°C) of each other. If not, contact a Factory Authorized Service Center for assistance.

6.5 Annual/Periodic System Inspection

This appliance should be inspected and adjusted periodically by qualified service personnel as part of a regular kitchen maintenance program.

Frymaster <u>recommends</u> that this appliance be inspected at least annually by a <u>Factory</u> <u>Authorized Service Technician</u> as follows:

6.5.1 Fryer

- Inspect the cabinet <u>inside and out, front and rear</u> for excess oil.
- Verify that the heating element wires are in good condition and that leads have no visible fraying or insulation damage and that they are free of oil.
- Verify that heating elements are in good condition with no carbon/caramelized oil build-up. Inspect the elements for signs of extensive dry-firing.
- Verify that the tilt mechanism is working properly when lifting and lowering elements, and that the element wires are not binding and/or chafing.
- Verify the heating-element amp-draw is within the allowed range as indicated on the appliance's rating plate.
- Verify that the temperature and high-limit probes are properly connected, tightened and functioning properly, and that mounting hardware and probe guards are present and properly installed.
- Verify that component box and contactor box components (i.e. computer/controller, relays, interface boards, transformers, contactors, etc.) are in good condition and free from oil and other debris.
- Verify that component box and contactor box wiring connections are tight and that wiring is in good condition.
- Verify that all safety features (i.e. contactor shields, drain safety switches, reset switches, etc.) are present and functioning properly.
- Verify that the frypot is in good condition and free of leaks and that the frypot insulation is in serviceable condition.
- Verify that all wiring harnesses and connections are tight and in good condition.

6.5.2 Built-In Filtration System

- Inspect all oil-return and drain lines for leaks and verify that all connections are tight.
- Inspect the filter pan for leaks and cleanliness. If there is a large accumulation of crumbs in the crumb basket, advise the owner/operator that the crumb basket should be emptied into a <u>fireproof</u> container and cleaned daily.
- Verify that all O-rings and seals (including those on the quick-disconnect fittings) are present and in good condition. Replace O-rings and seals if worn or damaged.
- Check filtration system integrity as follows:
- Verify that filter pan cover is present and properly installed.

- With the filter pan empty, place each oil return handle, one at a time, in the ON position. Verify that the pump activates and that bubbles appear in the oil of the associated frypot.
- Close all oil return valves (i.e., place all oil return handles in the OFF position). Verify proper functioning of each oil return valve by activating the filter pump using the lever on one of the oil return handle microswitches. No air bubbles should be visible in any frypot.
- Verify that the filter pan is properly prepared for filtering, then drain a frypot of oil heated to 350°F (177°C) into the filter pan and close the frypot drain valve. Place the oil return handle in the ON position. Allow all oil to return to the frypot, indicated by bubbles in the oil. Return the oil return handle to the OFF position. The frypot should have refilled in no more than 2 minutes and 30 seconds.

PROTECTOR[®] SERIES ELECTRIC FRYERS CHAPTER 7: OPERATOR TROUBLESHOOTING

7.1 Introduction

This section provides an easy reference guide to some of the common problems that may occur during the operation of this equipment. The troubleshooting guides that follow are intended to help correct, or at least accurately diagnose, problems with this 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. Never overlook the obvious – anyone can forget to plug in a cord or fail to close a valve completely. Most importantly, always try to establish a clear idea of why a problem has occurred. Part of any 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, too. 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.

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

- Verify that electrical cords are plugged in and that circuit breakers are on.
- Verify that frypot drain valves are fully closed.
- Have your fryer's model and serial numbers ready to give to 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.

\rm DANGER

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.

7.2 Troubleshooting

7.2.1 Computer and Heating Problems

Problem	Probable Causes	Corrective Action	
	A. Computer not turned on.	A. Press the ON/OFF switch to turn the computer on.	
No Display on Computer.	B. No power to the fryer.	B. Verify all power cords are plugged in and that circuit breaker is not tripped.	
	C. Computer, wiring harness or other component has failed.	C. Call your FASC.	
	A. Drain valve is open.	A. Verify that the drain valve is fully closed.	
	B. Computer has failed.	B. Call your FASC.	
Fryer does not heat.	C. Main power cord not plugged in.	C. Verify that the main power cords are fully seated in their receptacles, locked into place and that circuit breakers are not tripped.	
	D. Main switch inside cabinet next to fuse is switched to OFF.	D. Ensure switch is switched ON.	
Fryer repeatedly cycles on and off when first started with CYCL displayed.	Fryer is in melt-cycle mode.	See page 4-7.	
Fryer does not heat after filtering.	Drain valve is open.	Verify that the drain value is fully closed.	

7.2.2 Error Messages and Display Problems

Problem	Probable Causes	Corrective Action
CM 7 display is in wrong temperature scale (Fahrenheit or Celsius).	Incorrect display option programmed.	See page 4-16 for instructions.
CM7 display shows PROBE FRILURE.	Problem with the temperature measuring circuitry including the probe.	Shut the fryer down and call your FASC.
CM 7 display shows LOU TEMP.	Frypot temperature is between 180°F (82°C) and 315°F (157°C).	This display is normal when the fryer is first turned on and may appear for a short while if a large batch of frozen product is added to the frypot. If the display never goes out, the fryer is not heating. Shut the fryer down and call your FASC.
CM 7 display shows HIGH TEMP.	Fryer temp is above setpoint.	Ensure setpoint is set correctly. If problem persists call your FASC.

Problem	Probable Causes	Corrective Action
CM7 display shows IG NITIO N F AILURE.	Open drain valve, failed computer, failed interface board, open high-limit thermostat.	Verify that the drain valves are fully closed. If this does not correct the problem, call your FASC.
CM 7 display shows HOT-HI - 1.	Frypot temperature is more than 410°F (210°C) or, in CE countries, 395°F (202°C).	Call your FASC.
Computer locks up.	Computer error.	Switch the master power switch next to the fuse OFF and then ON again to power cycle computer. If problem persists, contact your FASC.
CM7 display shows IG NITION FAILURE and alarm sounds, but fryer operates normally (false alarm).	Failed computer.	It is normal to see ignition failure briefly at startup. If ignition failure continues call your FASC.
Heat indicator off upon initial startup. Display shows HI or HOT with alarm sounding.	Failed computer.	Call your FASC.

7.2.3 Filtration Problems

Problem	Probable Causes	Corrective Action
Filter pump won't start.	A. Power cord is not plugged in or circuit breaker is tripped.	A. Verify that the power cord is fully plugged in. If so, verify that circuit breaker is not tripped.
	B. Pump motor has overheated causing the thermal overload switch to trip.	B. If the motor is too hot to touch for more than a few seconds, the thermal overload switch has probably tripped. Allow the motor to cool at least 45 minutes then press the Pump Reset Switch.
	 C. Blockage in filter pump. Test: Close the drain valve and pull the filter pan out from the fryer. Activate the pump. If the pump motor hums for a short time then stops, the probable cause is blockage of the pump itself. 	C. Pump blockages are usually caused by sediment buildup in the pump due to improperly sized or installed filter paper and failure to use the crumb screen. Call FASC.
Filter pump runs but oil does not return to frypot and there is no bubbling oil.	Blockage in filter pan suction tube. Test: Close the drain valve and pull the filter pan out from the fryer. Activate the pump. If bubbling oil occurs, there is a blockage in the filter pan suction tube.	The blockage may be caused by sediment buildup. Use a thin, flexible wire to remove the blockage. If the blockage cannot be removed, call FASC.

Problem	Probable Causes	Corrective Action
Filter pump runs, but oil return is very slow and bubbling oil occurs.	 A. Paper/pad/screen clogged. B. Improperly installed filter pan components. C. Attempting to filter with oil that is not hot enough. 	 A. Paper/pad/screen needs changed or cleaned. B. If using filter paper or pad configuration, verify that filter screen is in bottom of pan with paper or pad on top of screen. Verify that O-rings are present and in good condition on filter pan connection fitting. C. In order to properly filter, the oil should be at or near 350°F (177°C).

7.2.4 Auto Top Off Problems

Problem	Probable Causes	Corrective Action
Frypots won't top off.	 A. Fryer temperature too low. B. Temperature of oil too cold. C. Supply line out of JIB. D. CM7 not readdressed after ATO switch was switched on. 	 A. Fryer temperature must be at least 300°F (149°C). B. Ensure that oil is above 70°F (21°C). C. Ensure supply line is in JIB. D. Switch all CM7 computers off and then on again to readdress system. If problem persists call your FASC.

7.2.5 Basket Lift Problems

Problem	Probable Causes	Corrective Action
Basket lift movement is noisy, jerky, or erratic.	Lack of lubrication on basket lift rods.	Apply a light coating of Lubriplate ^{IM} or similar lightweight white grease to the rod and bushings.

THIS PAGE INTENTIONALLY LEFT BLANK





Frymaster, L.L.C., 8700 Line Avenue, Shreveport, Louisiana 71106

TEL 1-318-865-1711

FAX (Parts) 1-318-688-2200

(Tech Support Fax) 1-318-219-7135 819-6338 APRIL 2008

PRINTED IN THE UNITED STATES

SERVICE HOTLINE 1-800-551-8633